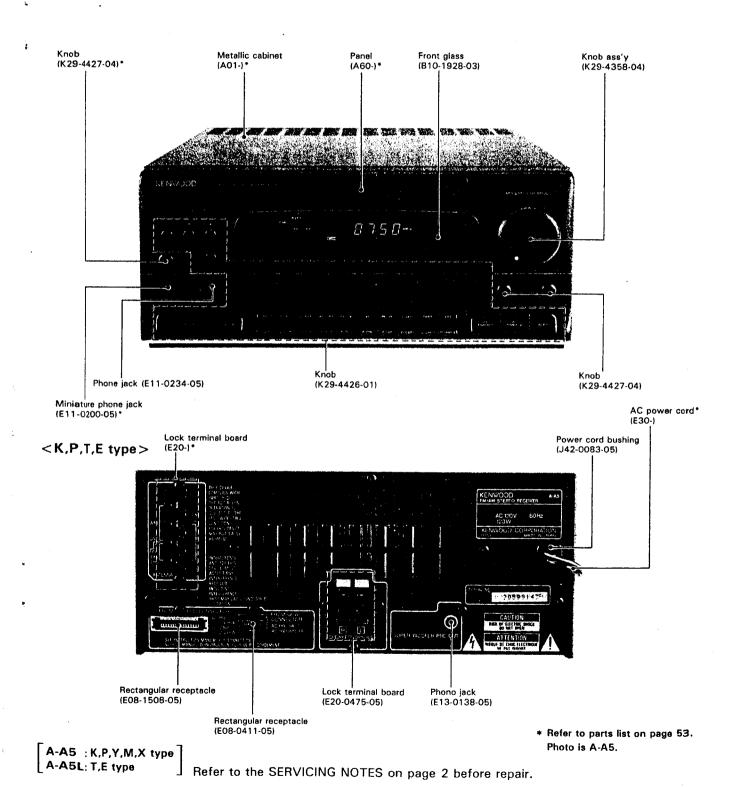
FM/AM STEREO RECEIVER

#### A-A5/A5L SERVICE MANUAL

(COMPACT HIFI SYSTEM UD-500/500M)

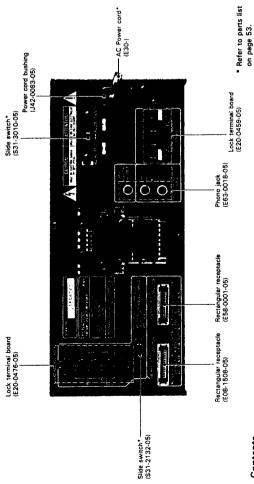
#### KENWOOD

©1992-7 PRINTED IN JAPAN B51-4600-00(MC) 4114



CONTENTS/SERVICING NOTES

### < Y,M,X type >



#### Contents

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	0	O	ā	0	DISASSEMBLY FOR REPAIR	$\preceq$	Ξ.
ŀ	CONTENTS/SERVICING NOTES	ACCESSORIES	PACKING	CONTROLS AND INDICATORS	Ω	BLOCK DIAGRAM	CIRCUIT DESCRIPTION.
				_			_

### Servicing notes

① This unit does not contain a selector IC. However, as IN-PUT SELECTOR IC is in corporated into the graphic equaliz-Since each speaker relay of this unit is operated according to the data that is serially transmitted from the graphic To output a tuner signal to each speaker terminal, follow er (GE-A5), signal system goes through the graphic equalizer. equalizer (GE-A5), the receiver cannot output sound alone. the following procedures.

#### Procedure 1)

Direct the tuner output to the main amplifier input. Connect the test pin on the right (lower right of the tuner board) of the main amplifier board (X09, A/6) (Fig. 1 or 2)

Front amplifier K,P,T,E type

Line o drid a (Lett Charline)	Pins 6 and 4 (Right channel)	Pins 3 and 1 (Left channel)	Pins 4 and 17 (Right channel)
adk: J'I'L'V	(Fig. 1)	Y.M.X.WDB	(Fig. 2)

After turning power ON in this setting, front L & R channels are output.

22 25 27 27 27 49 68 PC BOARD (Component side view) SCHEMATIC DIAGRAM WIRRING DIAGRAM. EXPLODED VIEW SPECIFICATIONS. ADJUSTMENT. PARTS LIST

#### Procedure 2)

Enter the test mode. (Hold down the CHARACTER key, and insert the AC plug into the outlet.)

- All fluorescent displays light.
- 1) Press the LD/AUX key. (The front speaker outputs sound.) 2) Press the CHARACTER key. (S.W. OUT outputs sound.) Normally, S.W.OUT is operated by Remote control unit.
- (2) Be sure to use the designated part (parts no. F20-1284-05) for the isolation of the power (final) transistor.
- ③ Y,M,X type only.

The cooling fan of the Main board (X09) is usually rotating above 80°C, temperature assurance switch S1 opens and the fan starts high-speed rotation. When the temperature further rises above 105°C, temperature assurance switch 52 also opens and the protection circuitry is activated to stop the output. (To release the protection, turn power OFF. To check the high-speed rotation operation of the fan, short-circuit test points W67 and W92.) at a low speed but, when the heat sink temperature rises

Remote control unit is packed with the graphic equalizer unit.

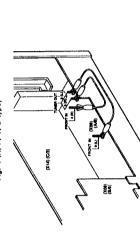
Battery cover (A09-0115-13) Remote control unit ...

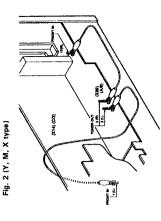
(X94-1000-61)

# SERVICING NOTES/ACCESSORIES

A-A5/A5L

Fig. 1 (K, P, T, E type)





The A-A5 and A-A5L are made in different countries. However, their circuits are identical.

	5		Audio unit			Display unit	
Model name Abb.	900	Japan made	Japan made Singapore made	France made	Japan made	Japan made Singapore made France made	France made
	¥	X09-3680-11	X09-3720-10	1	X14-3620-12	X14-3640-11	ŀ
	Δ.	X09-3680-11	X09-3720-10	1	X14-3620-12	X14-3640-11	1
A-A5	>	X09-3670-22	1	ı	X14-3620-22	ı	ι
	Σ	X09-3670-22	X09-3710-22	ı	X14-3620-22	X14-3640-22	ì
	×	X09-3670-72	X09-3710-72	1	X14-3620-72	X14-3640-72	l
	<b> </b>	X09-3680-51	X09-3720-51	X09-3720-52	X14-3622-72	X14-3642-72	X14-3642-73
A-A5L	ш	X09-3682-71	X09-3722-71	X09-3722-72	X14-3622-72	X14-3642-72	X14-3642-73

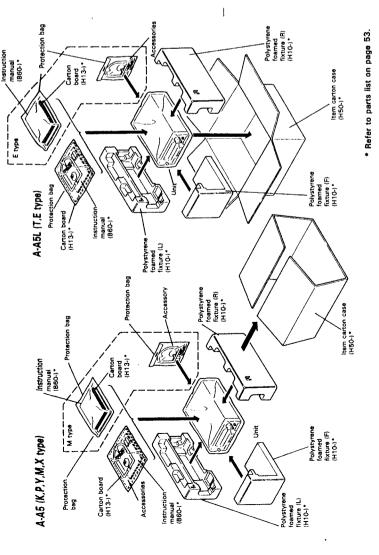
#### Accessories

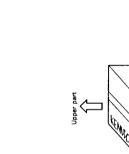
• Loop antenna stand(J19-2815-04)	• AC plug adaptor
• FM indoor antenna	Batteries (R03/AAA)
• AM loop antenne	• Anten II (75 0/300 0) (75 0/300 0) (75 0/300 0) (190-0)185-05)

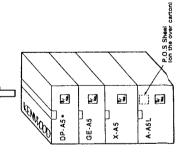
the unit with a European AC g in areas other than Europe. Speaker cords (E30-1297-05)

Speaker cords are packed with the speakers. Remote control unit is packed with the graphic equalizer unit. All other accessories are packed with the receiver unit.

### PACKING







P.O.S sheel

1

A- A5

Side of polystyrene foamed fixture

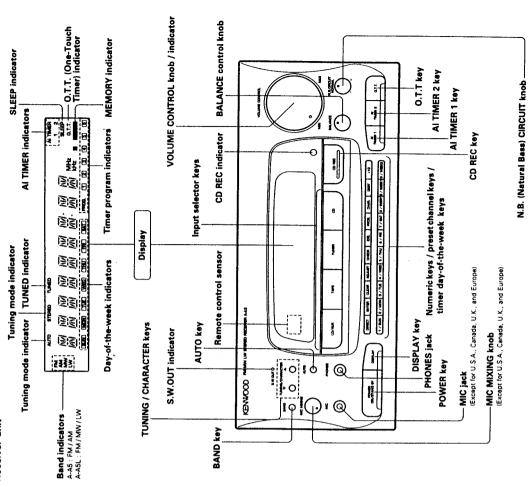
ENNOGE

• UD-500: DP-AS UD-500M: DP-MAS GE-A5

X-A5

# CONTROLS & INDICATORS



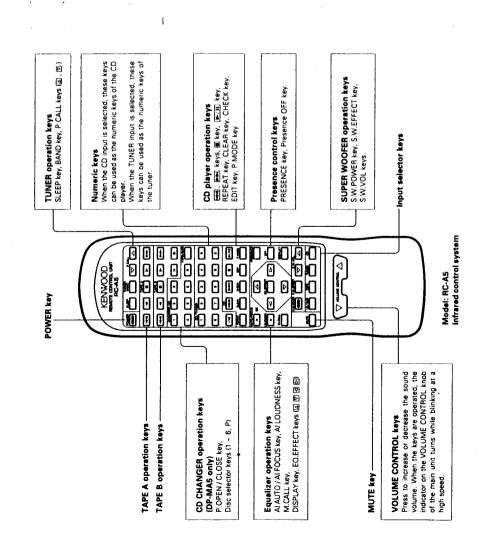




### A-A5/A5I

# CONTROLS & INDICATORS

### Remote control unit



# DISASSEMBLY FOR REPAIR

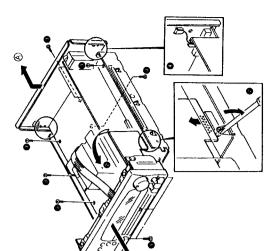
A-A5/A5L

### <K,P,T,E type>

# 1) Removing the audio main unit (X09: A/6)

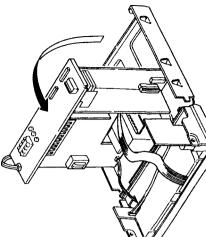
- 1. Remove the three screws (4), then remove the front panel while disconnecting the connector in the direction of arrow (
- Note: When installing the audio main unit, insert the 2. Remove the six screws (3), then remove the audio main unit in the direction of arrow (<a>®</a>).

clows as shown in the figure (a)



# 2) How to check the audio main unit (X09: A/6)

- 1. Stand the set with the right side upward, then move the audio main unit to parallel while moving the secondary parallel lead as shown in the figure (®
  - 2. Insert the connector of volume unit (X09: B/6) to the connector of audio main unit (6)
- Note: When the pins of connector is bent, correct them as shown in the figure (4)
- er, and connect the board ground TPI to the rear panel (19). 3. Lay a cloth between the audio main unit and transform-



4. In case check the main unit only, be able to check without connect the front panel side.

Stand the audio main unit with the rear panel side up-

ward as shown in the figure.

# **DISASSEMBLY FOR REPAIR**



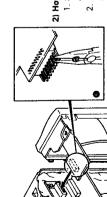


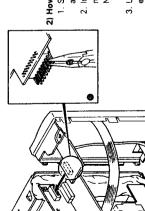
2. Remove the three knobs ( ), then remove the front panel 1. Remove the five screws (

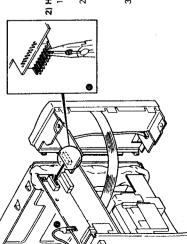
# in the direction of arrow.

### 1) Removing the audio main unit (X09: A/6) <Y,M,X type>

- 1. Remove the three screws (1), then remove the front panel while disconnecting the connector in the direction of arrow (®)
  - Note: When installing the audio main unit, insert the 2. Remove the six screws (4), then remove the audio main clows as shown in the figure (4) unit in the direction of arrow ((A)).







# 2) How to check the audio main unit (X09: A/6)

- 1. Stand the set with the right side upward, the move the audio main unit in the direction of arrow (🕲)
  - Note: When the pins of connector is bent, correct them Insert the connector of volume unit (X09: B/6) to the connector of audio main unit.
- er, and connect the board ground as shown in the figure 3. Lay a cloth between the audio main unit and transformas shown in the figure ( ).

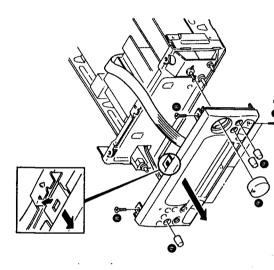
# DISASSEMBLY FOR REPAIR

2. Remove the four knobs ((()), then remove the front panel

in the direction of arrow.

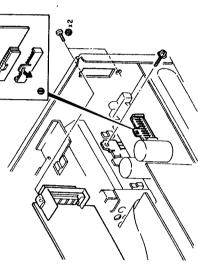
Remove the five screws (

3) Removing the front panel

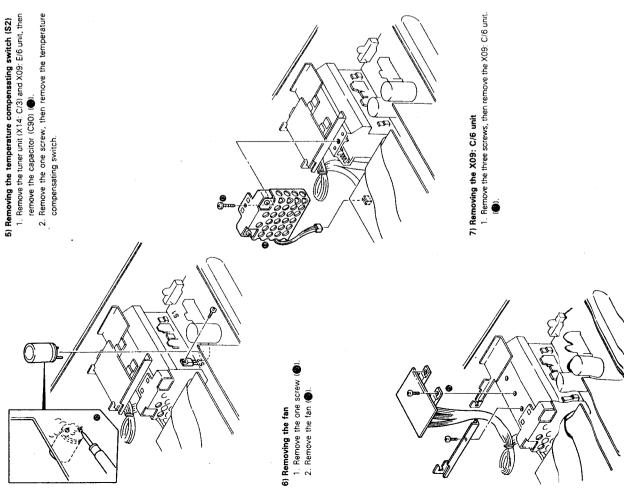


## 4) Removing the power transistor

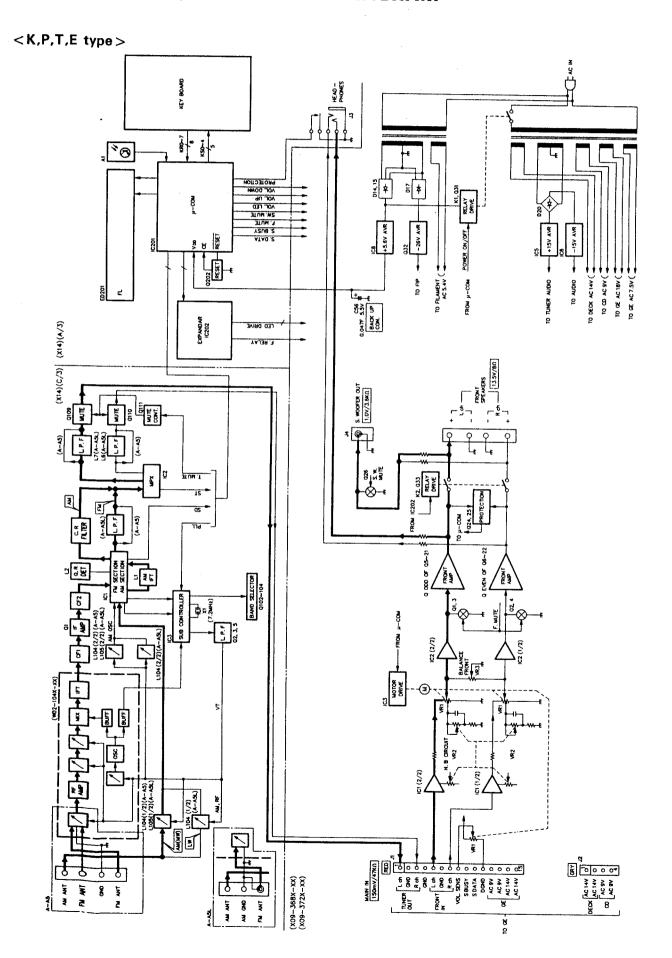
- 1. Removing the two screws (
  ), then remove the tuner unit (X14: C/3).
  - Remove the X09: E/6 unit as shown in the figure (●).
- 3. Remove the screws, then remove the power transistor.



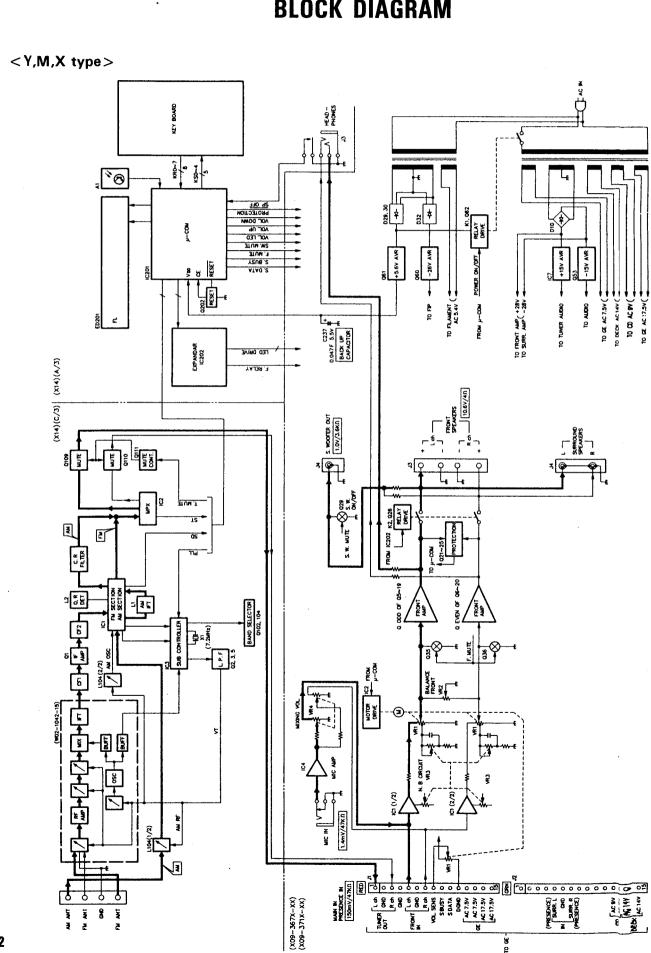
# DISASSEMBLY FOR REPAIR



#### **BLOCK DIAGRAM**

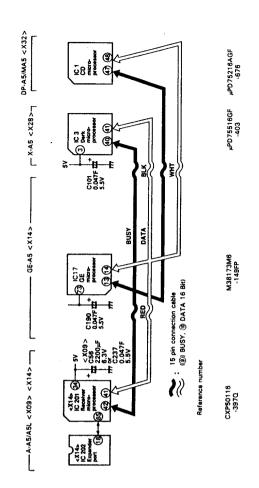


#### **BLOCK DIAGRAM**



## CIRCUIT DESCRIPTION

 Microprocessor and back-up condenser of this unit (16-bit serial transmission is supported like the UD-100/90/70, unlike the UD-7/9 series (8 bits).



# 2. Microprocessor initialization (reset) and test mode

		A-A5/A5L	GE-A5	X-A5	DP-A5/MA5
		RECEIVER microprocessor (X14) IC201 CXP50116-397Q	GE microprocessor (X14) IC17 M38173M6-149FP	DECK microprocessor (X28) IC3 µPD75516GF-403	CD microprocessor (X32) IC1 µPD75216AGF-676
Backup capacitor		(X09) C56 2200 µF 6.3 V (K,P,T,E vype) C237 0.047 F 5.5 V (Y,M,X vype)	(X14) C190 0.047 F 5.5 V	(X28) C101 0.047 F 5.5 V	None
initialization (reset)	Đ	Hold down the ENTER key, and insert the AC plug into the outlet.	Hold down the MEMORY key, and turn AC on.	Turn AC off in the CRLS test mode (see below).	Turn AC off again.
Ope	Operation	Hold down the CHARAC- TER key, and insert the AC plug into the outlet.	Hold down the FLAT key, and insert the AC plug into the outlet.	Short test pin (8-47-3), and insert the AC plug into the outlet.	Short-circuiting the test pins CN2 (1 pin and 2 pin)
Test mode Release	989	Remove the AC piug from the outlet.	Release—AC off.	Press the PAUSE key.	Release-AC off
Cont	Contents	(i) All fluorescent displays light. For details, see the service n	All fluorescent displays light. For details, see the service manual for each model.	No fluorescent display.	

CIRCUIT DESCRIPTION

4. AI TIMER 4-1. Flow chart of AI TIMER 2

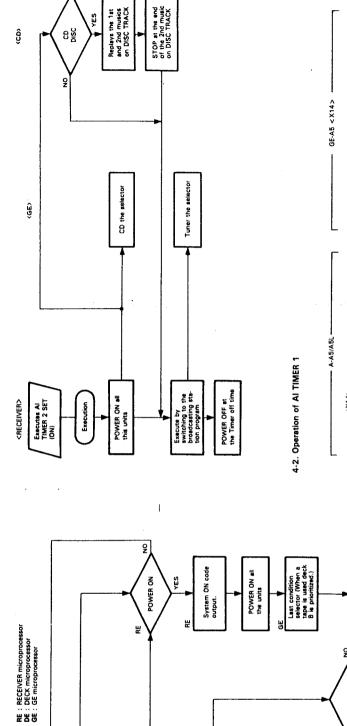
### A-A5/A5L

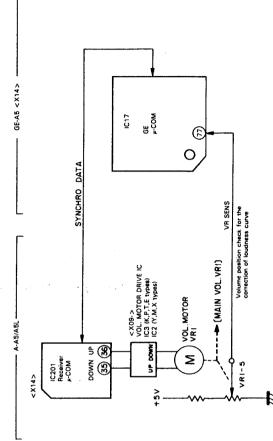
## CIRCUIT DESCRIPTION

3. Operation of UD-500/500M

The flow chart from power on through sound generation

START





GE TIMER

8 DECK is in recording state

Processing of Al TIMER 1

Selector set by the TIMER PLAY

POWER ON all the units

Selector is TUNER

END

Processing of A! TIMER 2

POWER ON

System ON code output.

TIMER PLAY

(AI TIMER 2)

AI TIMER 2 ON

YES

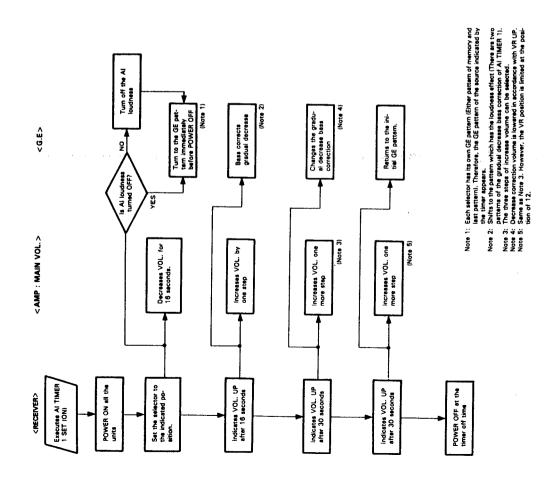
TIMER REC

ere is POWER ON time.

#### 17

# CIRCUIT DESCRIPTION

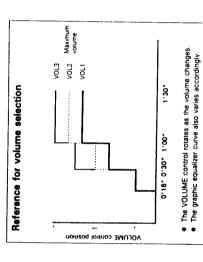
### 4-3. Flow chart of Al TIMER 1



### 4-4. Function description

#### Ai TIMER 1

- With the program timer mode sat to PLAY, when the timer is turned ON, the setting contents for the AI TIMER 1 is activated if the AI TIMER 1 is set to ON (the FL indicator is lit).
- When the Al TIMER 1 is turned ON, first playback starts with the minimum volume level, then the volume level is increased in three steps.
- The third-step volume level (the maximum volume level) can be selected among the three types of the volume levels (VOL. 1-3). Each time the Al TIMER 1 key is pressed, the maximum volume level is changed in order from VOL. 1 to VOL. 3 and TIMER OFF setting cyclically.
- When the key is pressed with the Al TIMER
   1 is OFF (FL indicator is not lit):
   □ OFF → VOL. 1 → VOL. 2 → VOL. 3 ¬



#### b) AI TIMER

- With the program timer mode set to PLAY, when the timer is turned ON, the setting contents for the AI TIMER 2 is activated if the AI TIMER 2 is set to ON (FL indicator is lit).
   When the AI TIMER 2 is turned ON, if the disc is loaded
  - with the discription of the discriptio
- Each time the Al TIMER 2 key is pressed, the timer setting is changed atternately.

### 5. Timer program operation

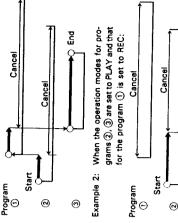
CIRCUIT DESCRIPTION

A-A5/A5L

# < When the program settings are registered within the same

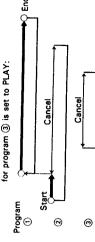
- When the two or more program settings are to be started at the same time:
  - The program having the least number is activated and others will be cancelled.
- When the setting time for two or more programs differ: First, the program with the earliest setting time is activated. Then, if the same mode (REC mode or PLAY mode) has been designated for the other program, the operation is changed to the program in which the same mode as the first one is designated and the end time for the above program will be cancelled. If another mode is set for of other programs, the contents will be cancelled.

# Example 1: When the operation modes for all three programs are set to PLAY:



Example 3: When the operation mode for programs ①, ② are set to REC and that

<u>@</u>

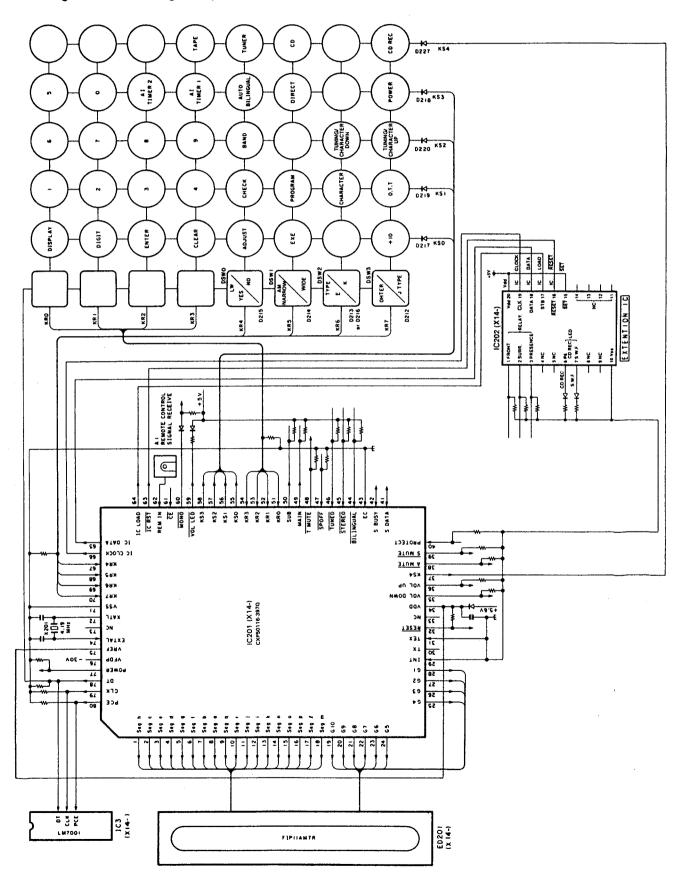


The program end is determined by the OFF time of the program which is activated at the last.

tuner automatthe program which is activated at the timer setting

#### CIRCUIT DESCRIPTION

6. Block diagram of surrounding microprocessor



# **CIRCUIT DESCRIPTION**

		OFF	F.M.	Last frequency	"" display	Preset memory Test frequency of each memory	AUTO	BOTH MODE	POWER ON Frequency display
7. Function initial setting	(1) Tuner section	POWER	BANDFM	Last frequency	Last preset	Preset memory	AUTO/MONO AUTO	BILINGUAL BOTH MODE	Display mode

### POWER OFF ... Clock display (2) Clock calendar and timer section

(2) CIOCK, Calefidar, and umer section	er section	
Calendar	January 1, 1991	
Clock	0:00 Power failure mode	node
Programmable timer Day of week	Day of week TUE	ш
	00:0 : 0:00	0
	OFF : 0:00	0
	MODE : PLAY	<b>≿</b>
	SOURCE : TU	TUNER
	SET ch : 01 ch	£
	Execution mode: OFF	ш
Sleep timer	OFF	
One touch timer	OFF	

### (3) Amplifier section

Selector Audio system	Audio system	TUNE
	Video system	9
CD RECOFF	OFF	
SUPER WOOFER OFF	OFF	

œ

### Setting of initial conditions (reset) (1) Method

### While pressing ENTER key, turn the AC ON. (2) Contents

Clears all the memory and returns to the initial conditions. However, the test frequency is newly memorized in the preset memory at this time. (The same as when the back-up data is NG.

### 8. Test mode

(1) Setting method

While pressing CHARACTER key, turn the AC on. (2) Clearing method

#### AC off.

(3) Contents

 S 4-channel mode (the front, center, and rear speakers output sound).

All fluorescent lamps and LEDs light.

Receive the minimum FM value.

Normally, the +10 key changes the high-order digits 1-, 2-, and 0- alternately, but it changes the high-order digits The test is performed with the following keys. Preset channel calling

1- and 0- alternately in the test mode. The 0 key does

not call any channel, but in the test mode, if the high-

order digit is 0, 10 ch is called, and if it is 1, 20 ch is called.

Table 1 lists the channels to be called.

#### Table 1

- LOS	Ĺ									
order	-	7	3	4	5	8	7	•	6	0
 0	-	2	3	4	9	9	7	80	6	2
	11	12	13	14	15	9	=	82	61	8
2) Motor volume test	110/	9	١,	l					1	ļ

If the DIGIT key is pressed, the volume keeps increasing for 16 seconds, and then keeps decreasing for 16 seconds. To stop the test in the middle, switch the power off.

3) O.T.T key test (one-touch-timer)
Normally, the O.T.T key is not accepted if the clock is not When the key is pressed the first time, ON 0:30 O.T.T appears on the fluorescent display, and after five seconds, only O.T.T is displayed. When the key is pressed the second time, O.T.T disappears, and the original state functioning. Only in the test mode, it is indicated that the key is accepted, but it does not cause any operation. before the key is pressed returns.

## 9. Conditions by destination

	Desti-	Desi	Destination switches (DSW)	witches (I	(MSC	]		inter-channel	Intermediate	Dil reference
	type	DSW3	DSW2	DSW1	DSWO	0	Receiving frequency range	space	frequency	frequency
	<b>≯</b>	-	1 0.0	-		Æ	87.5 ~ 108.0 MHz	50 kHz /100 kHz	+10.7 MHz	50 kHz (25 kHz)
					,	AM	531 ~ 1602 kHz /530 ~ 1610 kHz	9 kHz /10 kHz	+450 kHz	10 kHz
aA-A	2	-	0	0	•	Ā	87.5 ~ 108.0 MHz	100 kHz	+10.7 MHz	50 kHz (25 kHz)
						AM	530 ~ 1610 kHz	10 kHz	+450 kHz	10 kHz
	×	-	_	-		£	87.5 - 108.0 MHz	50 kHz	+10.7 MHz	50 kHz (25 kHz)
						AM	531 ~ 1602 kHz	9 kHz	+450 kHz	9 kHz
797	<u> </u>		-	-	l -	Æ	87.5 ~ 108.0 MHz	50 kHz	+10.7 MHz	50 kHz (25 kHz)
Α.	!			-	-	ΜW	531 - 1602 kHz	9 kHz	+450 kHz	9 kHz
J						ΓW	153 ~ 281 kHz	1 kHz	+450 kHz	1 kHz

1: With diode, 0: Without diode

13

## CIRCUIT DESCRIPTION

10. Test frequency

TYPE				A-A5				A-A5L
$\overline{}$		К, Р	Y, M   FM 10	Y, M (AM 10 kHz, FM 100 kHz step)	Y, M, FM 50	Y, M, X (AM 9 kHz, FM 50 kHz step)		т, Е
	F	98.0 MHz	Σ	98.0 MHz	Æ	98.0 MHz	F	98.0 MHz
2	₹.	108.0 MHz	FM	108.0 MHz	FM	108.0 MHz	FM	108.0 MHz
6	AM	630 KHz	MA	630 KHz	W	630 KHz	MA	630 KHz
4	AM	990 KHz	AM	990 KHz	AM	990 KHz	ΜA	990 KHz
S	AM	1440 KHz	A	1440 KHz	AM	1440 KHz	Ā	1440 KHz
9	AM	1610 KHz	AM	1610 KHz	AM	1602 KHz	A	1602 KHz
_	AM	1700 KHz	FM	87.5 MHz	M	87.5 MHz	M٦	162 KHz
80	Σ	87.5 MHz	FM	87.5 MHz	FIX	87.5 MHz	۲M	216 KHz
o	F	87.5 MHz	F	87.5 MHz	FK.	87.5 MHz	۲M	270 KHz
0	ΣΞ	89.1 MHz	FIX	89.1 MHz	Ā	89.1 MHz	FX	89.1 MHz
11	Ā	87.5 MHz	FW	87.5 MHz	Ā	87.5 MHz	۲.	280 KHz
12	ξ	90.0 MHz	Σ	90.0 MHz	F	90.0 MHz	FM	90.0 MHz
13	FM	106.0 MHz	FM	106.0 MHz	FM	106.0 MHz	ξ¥	106.0 MHz
14	AM	530 KHz	AM	530 KHz	AM	531 KHz	AM	531 KHz
15	¥	87.5 MHz	F	87.5 MHz	FM	87.5 MHz	Κ	153 KHz
16-20	ξ	87.5 MHz	Æ	87.5 MHz	Ā	87.5 MHz	Ā	87.5 MHz

11. Expansion port IC: CX-7991 (X14: IC202)

Pin functions

Pin No.	Pin name	0/1	Name	Description	
-	P1	0	FRONT BLY	Front speaker relay OFF!	OFF/ON
2	P2	0	SURR. RLY	S4ch speaker relay OFF	OFF/OF
ю	P3	0	PRESE RLY	F4ch speaker relay OFF/	OFF/ON
4	P4	0		No used (Open)	
ည	P5	0	VFIX	No used OFF!	OFF/ON
g	94	0	CDREC	CD REC LED OFF!	OFF/ON
7	P7	0	SWF	SUPER WOOFER LED OFF!	OFF/ON
80	8d	0	ALC	No used OFF!	OFF/ON
თ	6d	0		No used (Open)	
10	NSS			GND	
11	P10	0		No used (Open)	
12	P11	0		No used (Open)	
13	P12	0		No used (Open)	
14	os	0		No used (Open)	
15	SET	_		+5 V power supply	
16	RESET	-		Reset signal input	
17	STB	-	ICLOAD	Strube input	
18	DATA	-	ICDATA	Data input	
19	CLK	-	ICCLOCK	Clock input	
20	VDD			+5 V power supply	

# CIRCUIT DESCRIPTION

A-A5/A5L

Microprocessor; CPX50116-397Q (X14; IC201)
Pin functions

Pin No.	Pin name	0/1	Name	Description	
1 ~ 18	54 - 521/PG0 - PG3 PK0 - PK3, PJ0 - PJ3 T15 - T10	0	Segment	Segment (h, c, e, d, g, f, b, a, q, r, j, i, k, n, o, p, l, m)	
19 ~ 28	\$22, \$23/19, 18. T7 - T0	0	G10 ~ G1	Grid 10 ~ 1	
29 - 31	INT TX TEX		INT, TX, TEX	No used.	13530
32	RST	-	RESET	Reset pin High N	High NORMAL
83	NC		NC	No used.	
34	ppA		Vdd	+5 V power supply	9013
35	PIO	o	אסרם	Motor volume down	High ACTIVE
98	114	0	אסרח	Motor volume up	ACTIVE
37	PIZ	0	KS4	Key scan signal output (KS4)	
38	PI3	0	AMUTE	Amplifier mute	3 18 18
39	PB0	0	SMUTE	Super woofer mute	3 6 8
04	PB1	-	PROTECT	Protection detection	56
41	PB2	õ	SDATA	Serial communication DATA	
42	PB3	S	SBUSY	Serial communication BUSY	
43	EC		25	No used.	
4	PXO	-	BILINGUAL	No used	03031
45	PX1	-	STEREO	Stereo signal detection	HIGH MONAURAL
46	PX2	-	TUNED	SD signal detection	OF E
47	PA0	_	SPOFF	Head phone use detection	No use
48	PA1	0	TMUTE	Tuner mute	58
49	PA2	0	MAIN	No used	
S	PA3	0	SUB	No used	
51 ~ 54	PF0 - PF3	-	KR0 - KR3	Key return signal input (KR0 ~ KR3)	
55 ~ 58	PE0 ~ PE3	0	KS0 - KS3	Key scan signal output (KS0 - KS3)	i
29	PY0	0	VOLLED	Volume LED drive	38
8	PY1	0	MONO	Forced monaural output	10 to
19	PY2	_	#5	Chip enable signal input	ě s
62	PY3	-	REMIN	Remote control signal input	
ន	PD0	0	ICRST	Expansion port IC RESET	
2	104	0	ICLOAD	Expansion port IC STROBE	
65	PD2	0	ICDATA	Expansion port IC DATA	
98	PD3	0	ICCLOCK	Expansion port IC CLOCK	
67 - 70	PC0 ~ PC3	-	KR4 - KR7	Key return signal input (KR4 - KR7)	
1,1	Vss		Vss	GND	
72	XTAL		XTAL	Crystal oscillator input (4.19 MHz)	
73	S		NO.	No used.	
7.4	EXTAL		EXTAL	Crystal oscillator input (4.19 MHz)	
75	Vref		Vref	No used.	
92	Vfdp		Vfdp	-30 V power supply.	
71	SO/PH0	0	POWER	utbut High	58
82	S1/PH1	0	το	PLL IC (LM7001) DATA	
82	S2/PH2	0	CLK	PLL IC (LM7001) CLOCK	
٤	S3/PH3	0	PCE	PLL IC (LM7001) STROBE	

**ADJUSTMENT** 

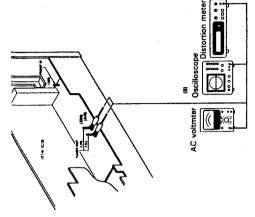
(K,P,T,E type)

### **ADJUSTMENT**

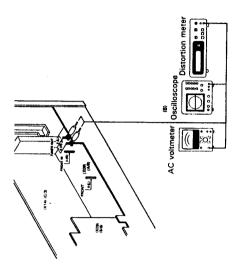
### 1. TUNER UNIT

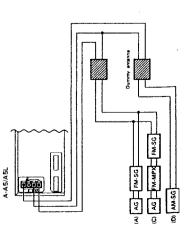
A-A5/A5L

P.1G.				ઉ																												L			
ALIGN FOR				ΛO							Minimum distortion								Hinjage crosstalk					Adjust VR1	and stop at the point	where ED201(TUNED) goes on.							Adjust VR3 and stop at	the point where ED201 (TUNED)	goes on.
ALIGNMENT POINTS				17	(X14-)						IFT	(T02-)							YR5	(X14-)				YRI	(X14-)								YR3	( <del>-1</del> 15)	
TUNER			AUTO	or MONO	98. OMHz						MONO	98.0MHz							AUTO	98. OMEZ				AUTO	or MONO	98.0MHz							1008kHz		
OUTPUT SETTINGS	SELECTOR: FM		Connect a DC voltmeter	between TP3 and TP4.	(X14-)						89								<b>®</b>						8						SELECTOR: AM(MW)		9		
IMPUT SETTINGS		(A) 98, DMaz	1kHz. 175kHz dev	(K.P.M.Y.X type)	1kHz. ±40kHz dev	(E.T type)	60dBu (AMT input)	(3)	98.0MHz	1kHz, ±68.25kHz dev	Pilot: 17. 5kHz dev	(K.P.M.Y.X type)	1kHz. t40kHz dev	Pilot: 16kHz dev	(E,T type)	60dBu (ANT input)	(3)	98.0MBz	IkHz, ±40kHz dev	Pilot ±6kHz dev	Selector:L or R	60dBu (AMT input)	( <b>y</b> )	98.0MRz	1kHz, ±75kHz dev	(K.P.M.Y.X type)	1kHz, ±45kHz dev	(E.T type)	14dBu(ANT input) 750	18dBu(ANT input)3000	SELECTION	(0)	1008kHz	400Hz, 30% mod	ZedBu(AMI input)
ITEN	SECTION			DISCRIMINATOR		·					DISTORTION	(STEREO)							SEPARATION							TUNING LEVEL					AM (MW) SEL		(1) TUNING LEYEL		
Š	FM			-							2								en							4					ΑM		Ê		



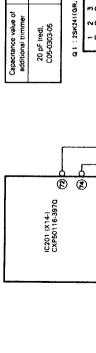
### (Y,M,X type)

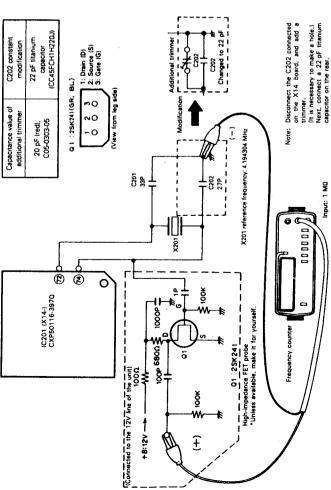




### **ADJUSTMENT**

2. Timer accuracy improvement method





The timer accuracy is within ±40 seconds for one month as a standard. For improved timer accuracy, perform the following procedure:

- (1) If the timer accuracy is without the standard, replace X201 (L77-1176-05) near the microprocessor IC on a printed board (X14-)
- (2) Even if within the standard, for further improved accuracy, change the constant of C202 in the crystal oscillation circuit

of microprocessor IC201 and add a trimmer.

Adjustment method (Use a high-impedance buffer to avoid Connect a high-accuracy frequency counter to pin 74 by way of the FET probe shown above, and adjust the frequency fully up to the first digit of the X201 reference frequency 4,194,304 Hz. (Connect the necestive (-) side of the frequency counter to the GNU SIDE OF (2002). frequency deviation.)

between pin 74 of IC201 and 1P of the input stage of Note (a) As regards the positive (+) side of the frequency counter, arrange as short a distance as possible the FET probe.

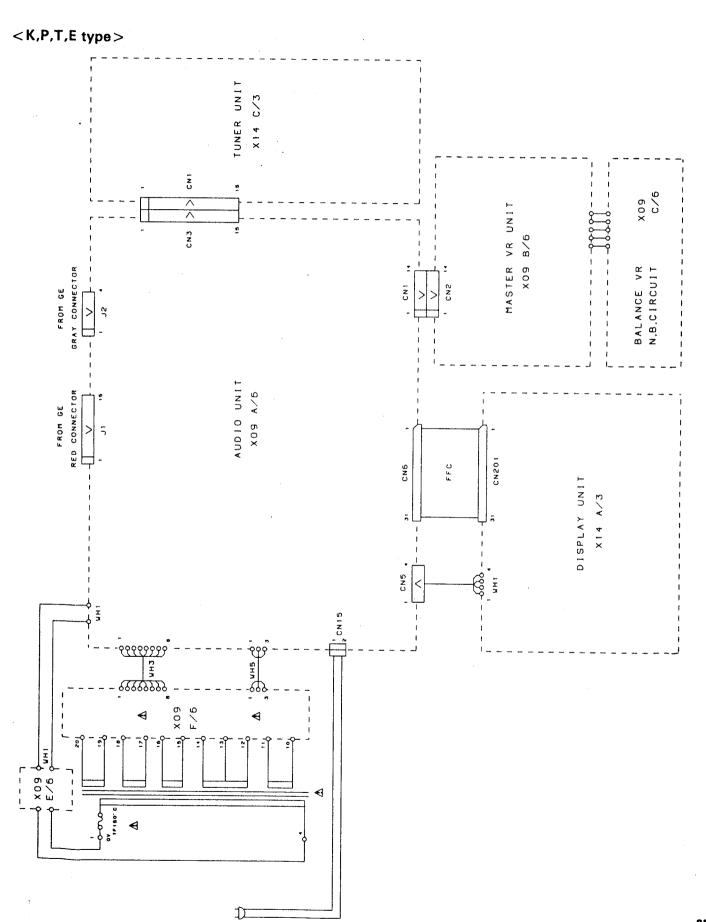
Note (b) Perform the trimmer adjustment after energization of around 10 minutes at normal temperature.

For example, when the result of measurement at pin 74 by the frequency counter is  $f_X = 4,194,275 \text{ Hz.}$ (Reference frequency to = 4,194,304 [Hz]) (3) Monthly error calculation method

Monthly error [sec] =  $\frac{f_x - f_0}{f_0}$  × the number of seconds

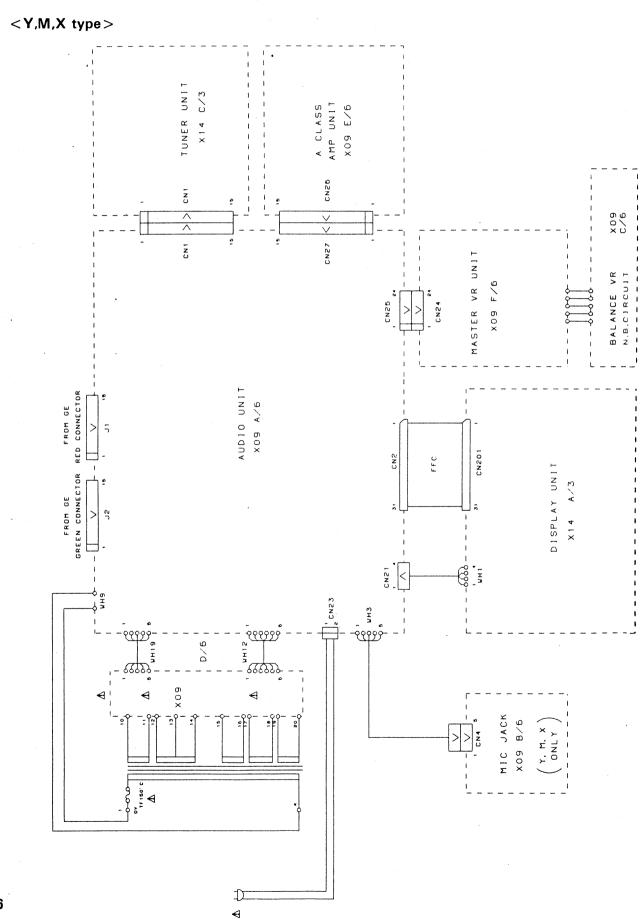
\* A minus value as the monthly error Means a loss. 4,194,275 - 4,194,304  $\times$  (60  $\times$  60  $\times$  24  $\times$  30) 4,194,304 = -17.9 [sec]taken for one month

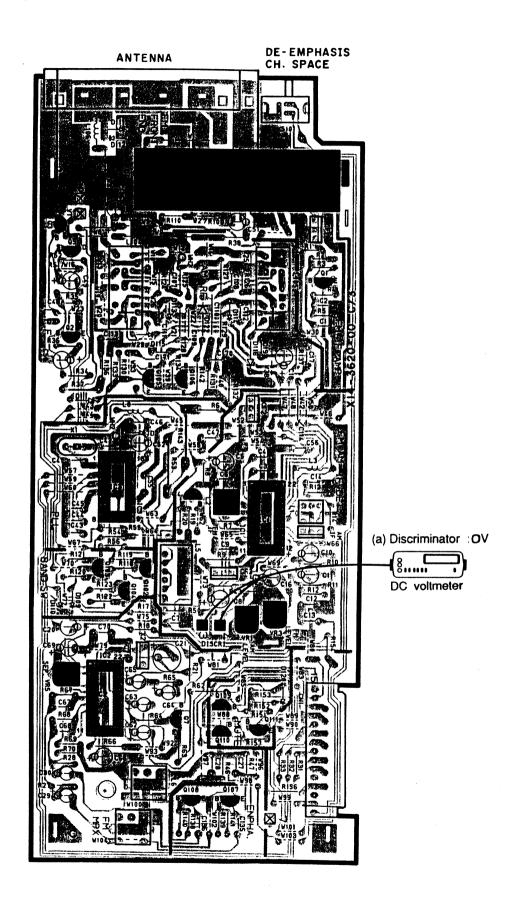
#### **WIRING DIAGRAM**



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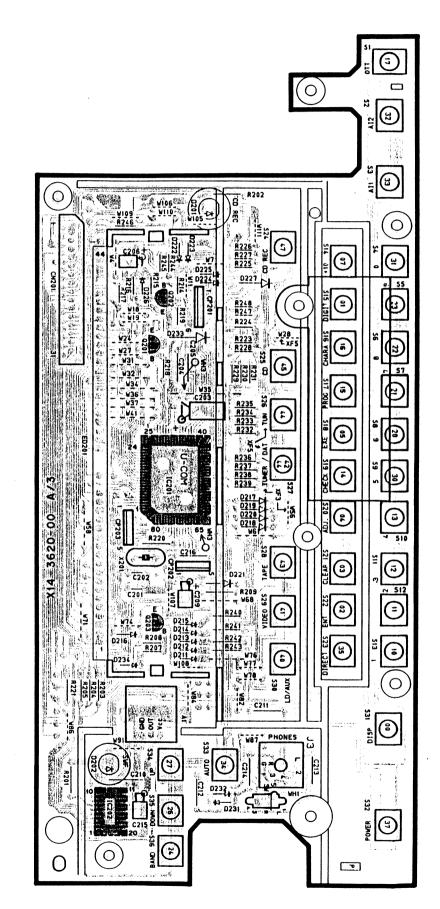
#### **WIRING DIAGRAM**





#### PC BOARD (Component side view)

(Y,M,X type only)



(Y,M type only)

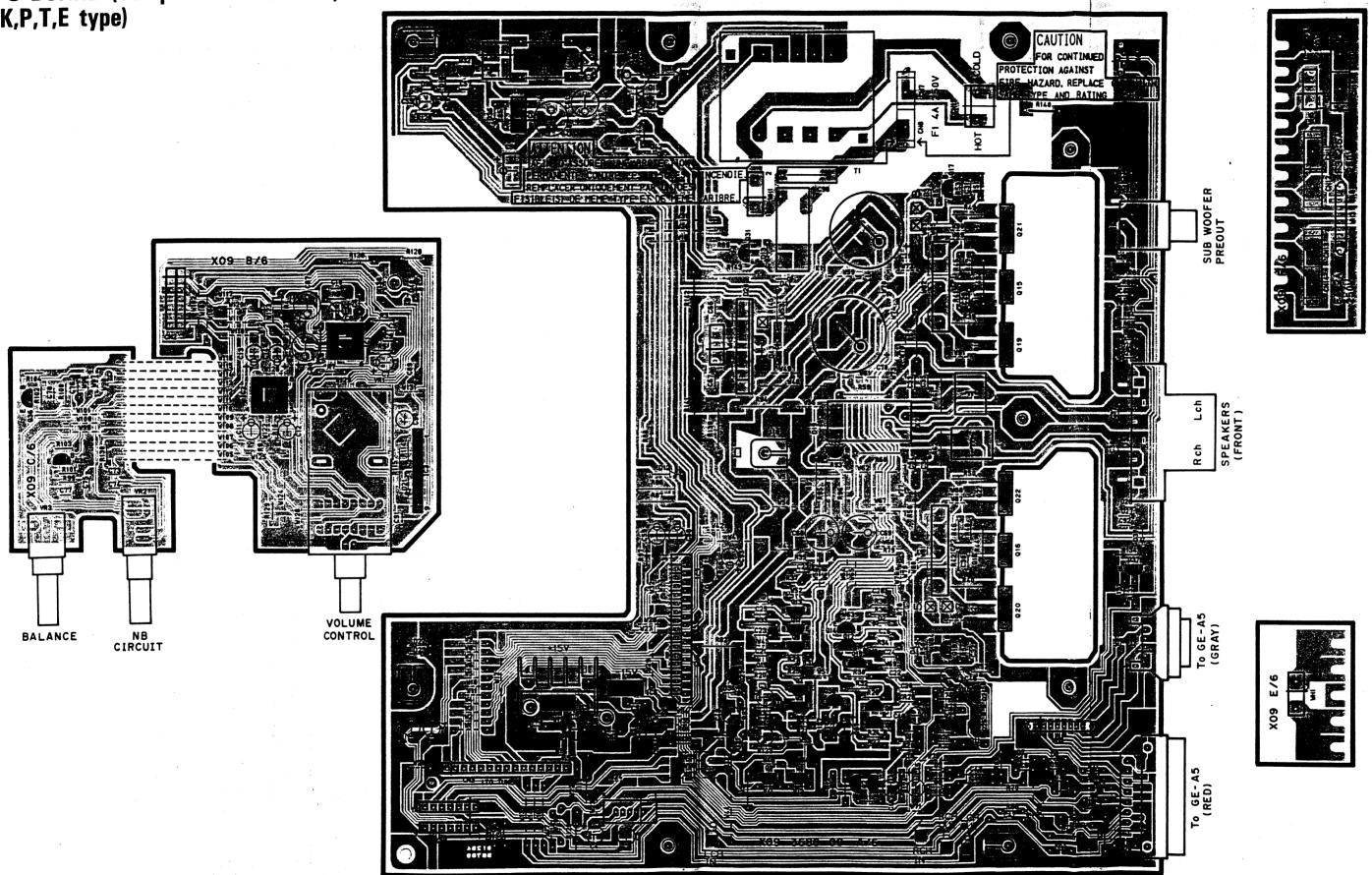
110-1200--2400

**X**14

B/3

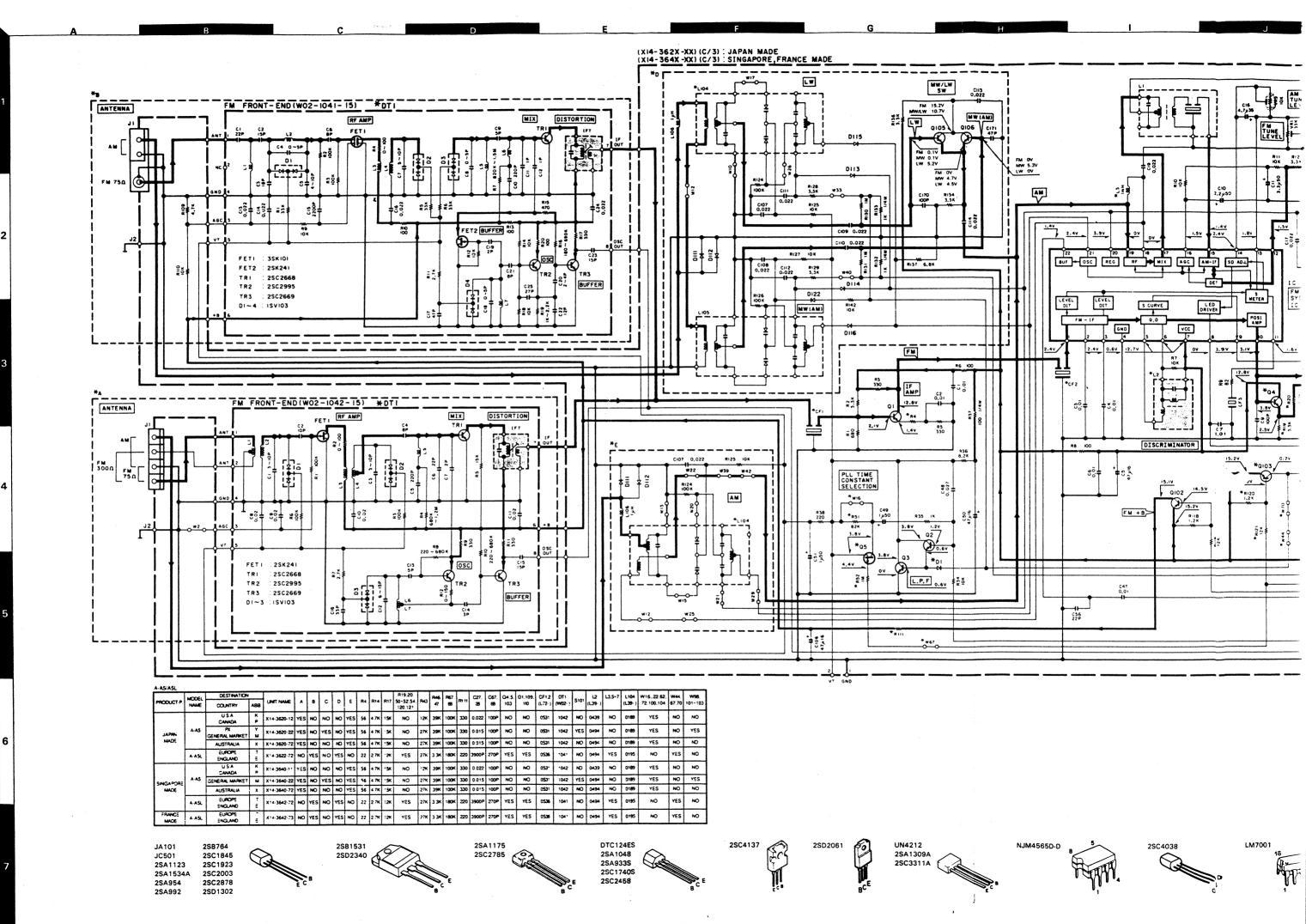
		-
		• •
		•
		-

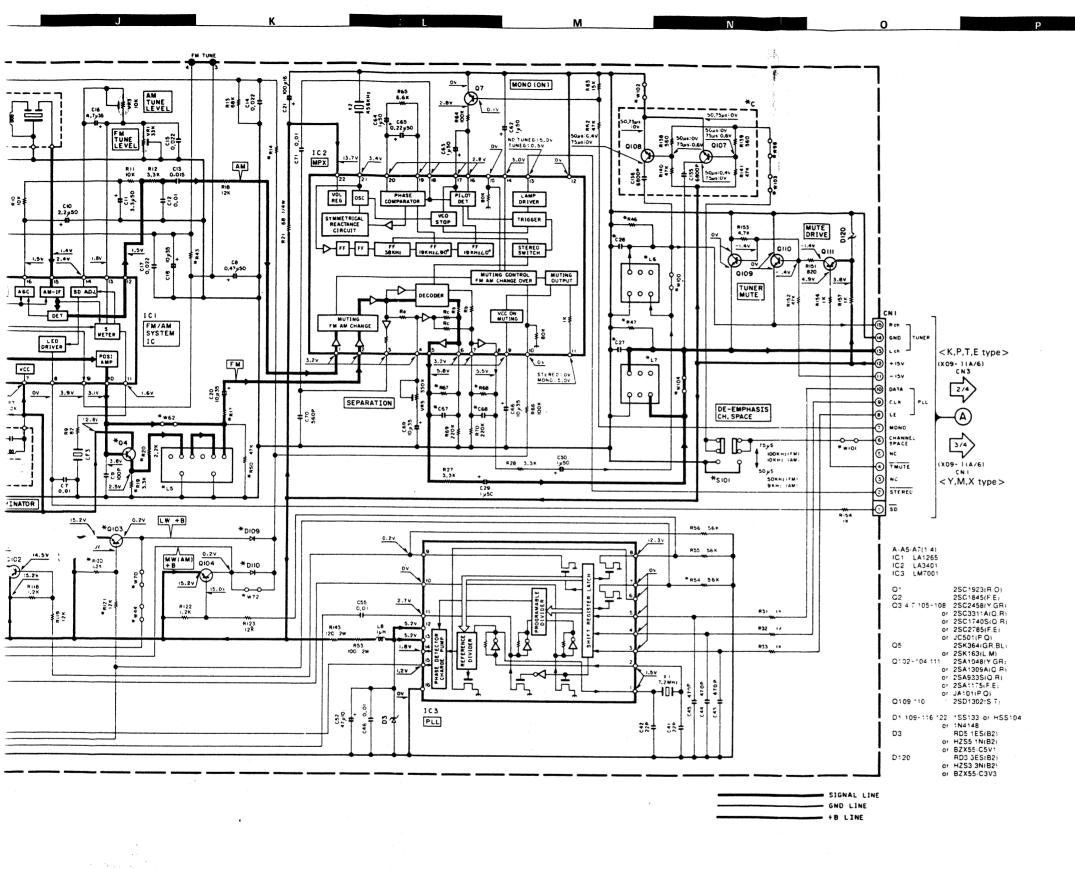
PC BOARD (Component side view) (K,P,T,E type)



PC BOARD (Component side view) (Y,M,X type) A533 NB CIRCUIT BALANCE VOLUME CONTROL MIC

Refer to the schematic diagram for the values of registers and capacitors.



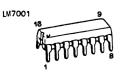


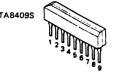
A-A5/A5L(K)(1/4)

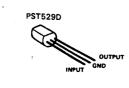
CAUTION: For continued safety, replace safety critical components only with manufacturer's recommended parts (refer Indicates safety critical components. To reduce the risk of electric shock, leakage-current or resistance measurements shall be carried out (exposed parts are acceptably insulated from the supply circuit) before the appliance is returned to the customer.

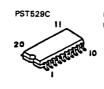
DC voltages are as measured with a high impedance voltmeter. Values may vary slightly due to variations between individual instruments or/and units.



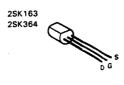


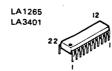


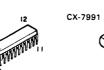












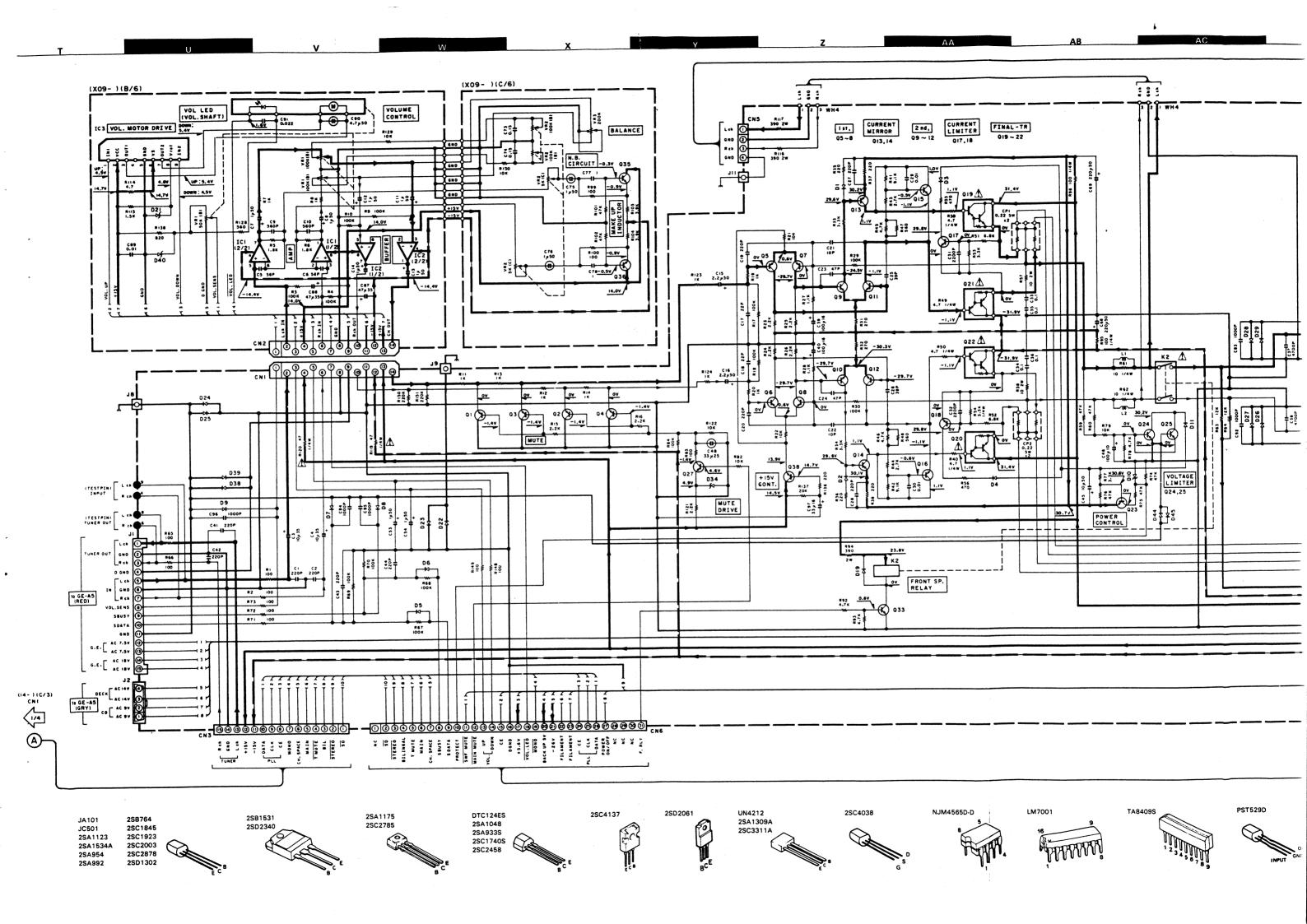


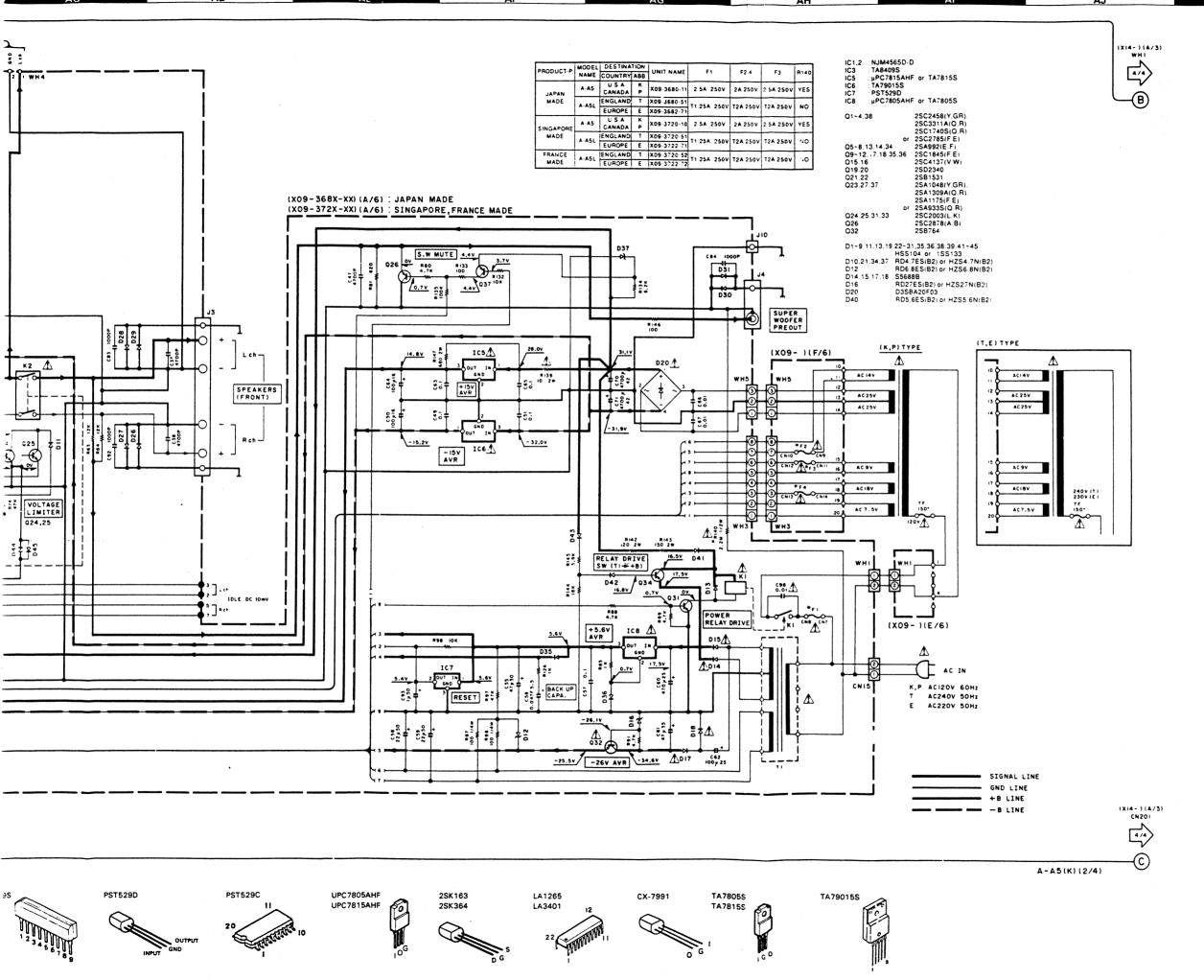








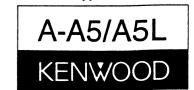


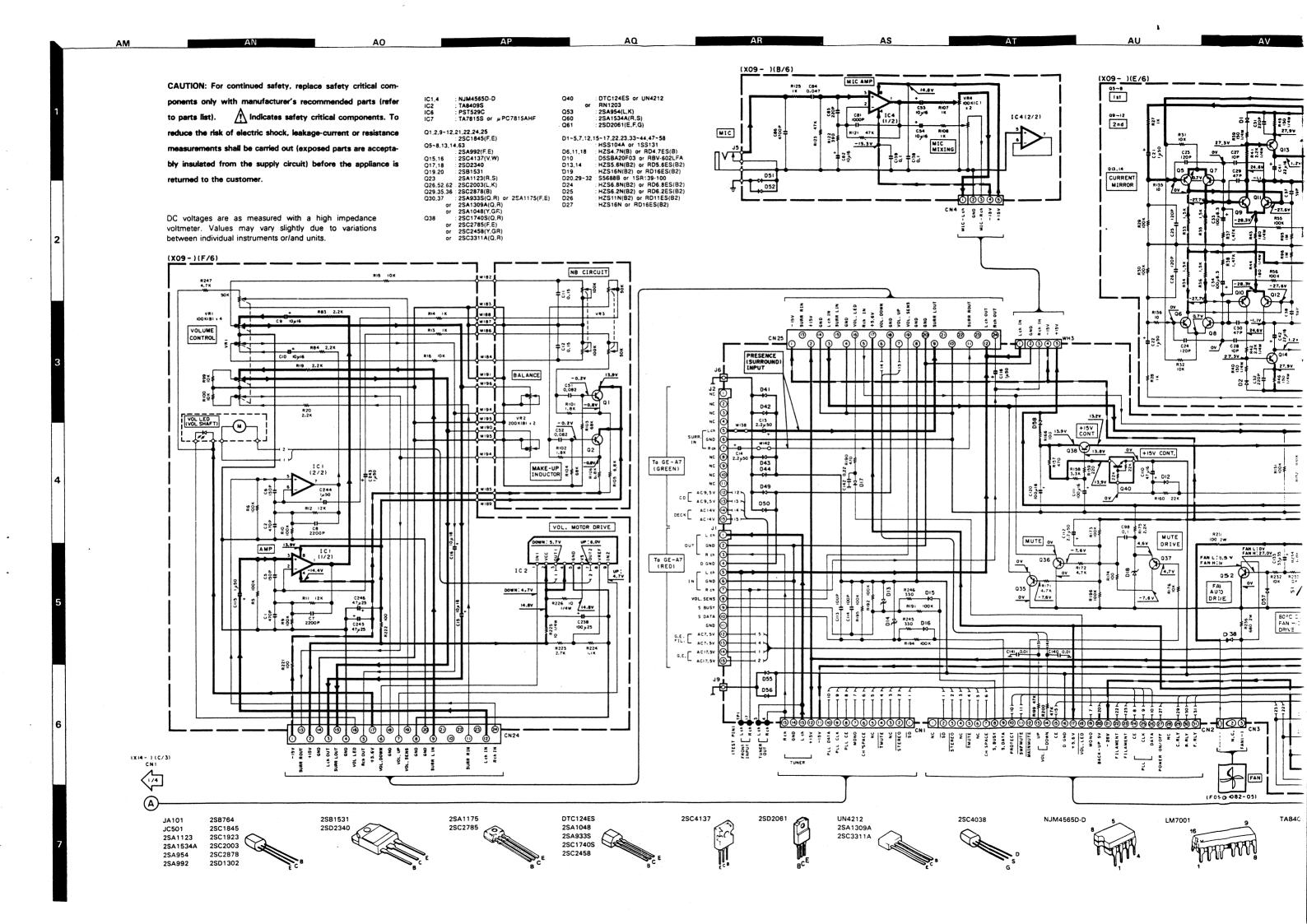


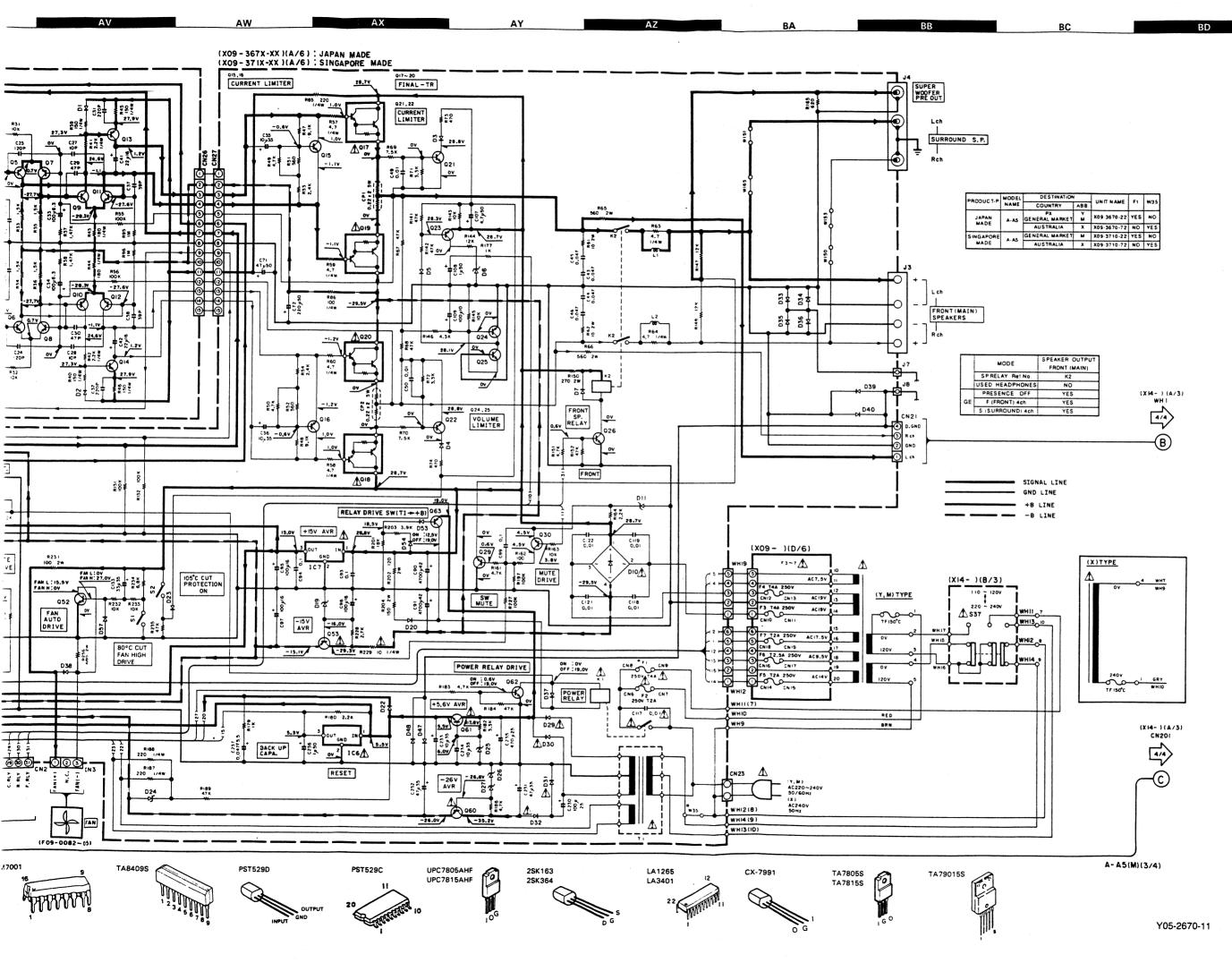
DC voltages are as measured with a high impedance voltmeter. Values may vary slightly due to variations between individual instruments or/and units.

(K,P,T,E type)

Y05-2670-11

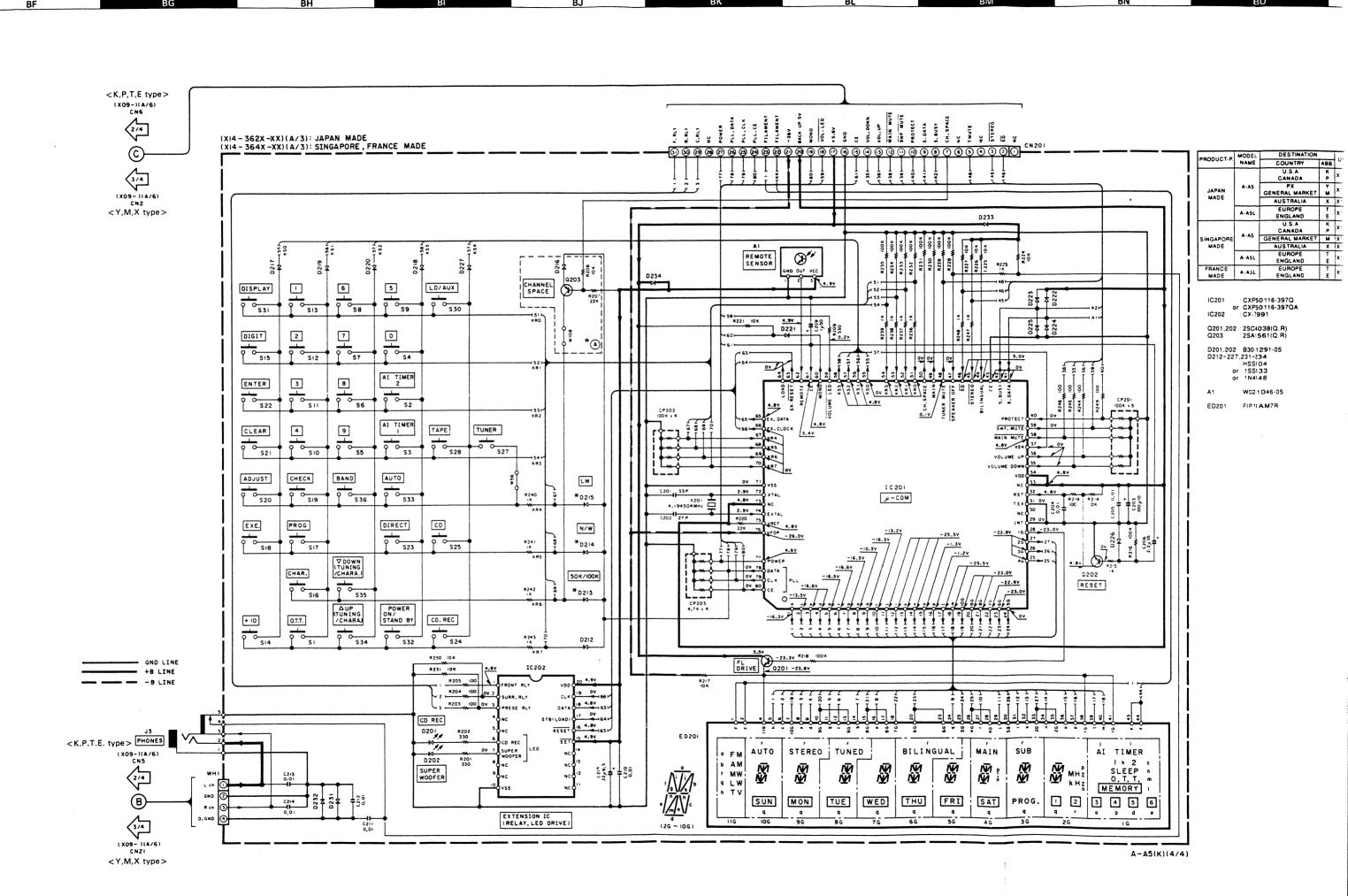






(Y,M,X type)

A-A5/A5L KENWOOD



2222427.2	MODEL	DESTINATION		UNIT NAME	D212	D214	D215	(A)
PRODUCT-P.	NAME	COUNTRY	ABB.	DAII NAME	0213	0214	0213	O
		U.S.A CANADA	K	X14-3620-12	NO	NO	NO	NO
JAPAN	A-A5	PX GENERAL MARKET	Y M	X14-3620-22	NO	YES	NO	YES
MADE		AUSTRALIA	X	X14-3620-72	YES	YES	NO	NO
	A-A5L	EUROPE ENGLAND	T	X14-3622-72	YES	YES	YES	NO
		U.S.A CANADA	K	X14-3640-11	NO	NO	NO	NO
SINGAPORE	A-A5	GENERAL MARKET	M	X14-3640-22	NO	YES	NO	YES
MADE		AUSTRALIA	X	X14-3640-72	YES	YES	NO	NO
	A-A5L	EUROPE ENGLAND	T E	X14-3642-72	YES	YES	YES	NO
FRANCE	A-A5L	EUROPE FNGLAND	T	X14-3642-73	YES	YES	YES	NO

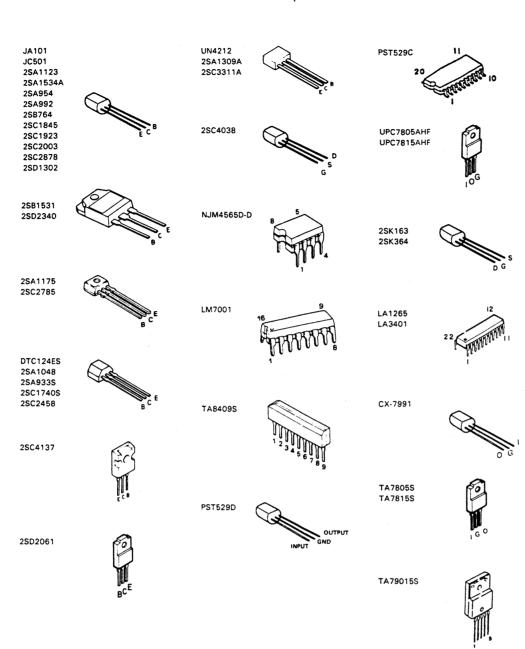
iC201 : CXP50116-397Q or CXP50116-397QA iC202 : CX-7991

G201.202 : 2SC4038(Q.R) G203 : 2SA1561(Q.R)

D201.202 : B30-1291-05 D212-227.231-234 : HSS104 or 1SS133 or 1N4148

or 1N4148 : W02-1046-05

ED201 FIP11AM7R



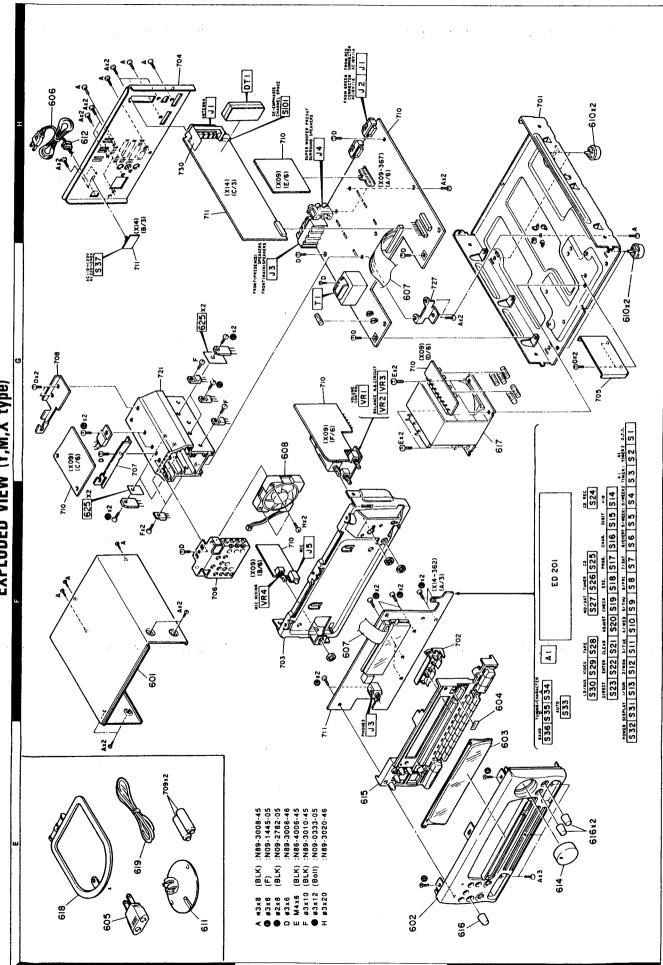
DC voltages are as measured with a high impedance voltmeter. Values may vary slightly due to variations between individual instruments or/and units.





# A-A5/A5L A-A5/A5L

EXPLODED VIEW (Y,M,X type)



Refer to the schematic diagram for the values of registers and capacitors.

52

KCUSA P.Canada T:England E.Europe X.Australia M.Other Areas

Y:PX(Far East, Hawaii) Y:AAFES(Europe) L:Scandinavia

23

## A-A5/A5L

### PARTS LIST

\* New Parts
Parts without Parts No. are not supplied.
Les articles non mentionnes dans le Parts No. ne sont pas fournis.
Telle onne Parts No. werden nicht geliefert.

3.4 A A B B B B B B B B B B B B B B B B B	5/A5L (K,P,T, 2956-01 00258-01 00258-01 1926-03 0022-13 0122-23 0122-23 0123-00 0932-00 0932-00 0935-00 0935-00 0935-00 0935-00 0935-00 0935-00 0935-00 0935-00 0935-00	E type): JAPAN MADE  METALLIC CABINET PANEL(A-AS) FRONT GLASS SHOKED FILTER WARRANTY CARD WARRANTY CORD AC POWER CORD AC POWER CORD AC POWER CORD AC POWER CORD WIRING HARNESS POLYSTYRENE FOAMED FIXTURE(C) POLYSTYRENE FOAMED FIXTURE(C) POLYSTYRENE FOAMED FIXTURE(C)	
25. 10. 10. 10. 10. 10. 10. 10. 10. 10. 10	2956-01 0259-01 1928-01 1928-03 00022-13 00022-13 0112-13 0112-13 0112-13 0112-13 0112-13 0112-13 0112-13 0112-13 0112-15 012-25 013-00 0936-00 0936-00 0938-01 0939-01	INET  R  MANUAL(ENGLISH)  MANUAL(SRENCH)  MANUAL(GERRAN)  MANUAL(GERRAN)  MANUAL(GERRAN)  MANUAL(GERRAN)  D  D  D  S  S  S  S  S  S  S  S  S  S	
3.8	1928-03 -00259-04 -00259-04 -00221-13 -0122-23 -0133-13 -0133-13 -0938-00 -0938-00 -0938-00 -0938-00 -0938-00 -0938-00 -0938-00 -0938-00 -0939-02 -0939-02 -0039-04	B D D D MANUAL(ENGLISH) MANUAL(SPANISH) MANUAL(GERNAN) MANUAL(DUTCH) D D D SS SS SS FØAMED FIXTURECL FØAMED FIXTURECL	
10 10 10 10 10 10 10 10 10 10 10 10 10 1	0143-13 0930-00 0932-00 0932-00 0935-00 0937-00 0937-00 2593-15 2593-15 2593-15 5300-02 5301-03 0039-04	D MANUAL(ENGLISH) MANUAL(SPANISH) MANUAL(GERMAN) MANUAL(GERMAN) MANUAL(ITALIAN) D D D SS SS FRAMED FIXTURE(E FRAMED FIXTURE(E	
10 10 10 10 10 10 10 10 10 10 10 10 10 1	0930-00 0932-00 0934-00 0936-00 0935-00 0935-00 0935-00 0931-03 0495-05 5301-02 5301-03 0632-04	MANUAL(ENGLISH) MANUAL(SPANISH) MANUAL(GERBAN) MANUAL(DUCH) MANUAL(ITALIAN) D D S S S S S S S S S S S S S S S S S	ш. (
10 10 10 10 10 10 10 10 10 10 10 10 10 1	335-00 337-00 337-00 392-15 393-15 495-05 495-05 339-04 333-24	MANUAL (GERMAN) MANUAL (TALIAN) MANUAL (TALIAN) D D SS SS FOAMED FIXTURECE FRAMED FIXTURECE	
* * * * * * * * * * * * * * * * * * *	592-15 593-15 550-05 495-05 300-02 391-02 393-04	D D SS FOAMED FIXTURE(L FOAMED FIXTURE(C	យយឍ
##### ################################	300-02 391-02 391-03 532-04	FOAMED FIXTURECL FOAMED FIXTURECE FOAMED FIXTURECE	n⊢× o
H25 H25 H50		AG	ж в
H20	-0644-04 -0681-04 -0356-04 -0357-04	PROTECTION BAG (0632 PRINTED) PROTECTION BAG ITEM CARTON CASE(A-A5) ITEM CARTON CASE(A-A5L)	T X T
0 30 J02- 1 1A J19- 2 10 J42- 2 51-	-0370-05 -2815-04 -0083-05 -0307-05	FOOT ANTERNA HOLDER POWER CORD BUSHING WIRE BAND	
55 2A K29-	-4358-04 -4426-01 -4427-04	KNOB ASSY(VOLUME CONTROL) KNOB(POWER, DISPLAY etc.) KNOB(BALANCE, N. B. CIRCUIT)	
3C * L07-	-0546-15 -0549-15 -0570-15	POWER TRANSFORMER POWER TRANSFORMER POWER TRANSFORMER	жш <b>⊢</b>
18 N09- 28 N09- 30 N09- 20 N09- 20 N09- 20 N09-	-3008-45 -1485-05 -2782-05 -3006-46	BINDING HEAD TAPTITE SCREW (M3X8) TAPTITE SCREW (C3X8) BINDING HEAD TAPTITE SCREW BINDING HEAD TAPTITE SCREW	
28 N35-	-3006-46 -0333-05	BINDING HEAD MACHINE SCREW TAPPING SCREW (3X12)	
618 1A T90-	-0173-05 -0176-05 -0185-05	LOOP ANTENNA(AM) T TYPE ANTENNA(FM) ANTENNA ADAPTOR	12
N 1	-0185-05	ANTENNA ADAPTOR	岜

. d	Address	N S	Parts No.	Description 独 4 / 由 林	Destination	Re- marks mak
			A-A5/A5L (K	APAN MADI		
	3.8 3.4 3.4	***	A01-2956-01 A60-0258-01 A60-0259-01	METALLIC CABINET PANEL(A-AS) PANEL(A-ASL)	7 H	
	<b>≪</b> α mm	**	B10-1928-03 B11-0259-04 B46-0092-13 B46-0121-13	FRONT CLASS SMOKED FILTER VARRANTY CARD WARRANTY CARD WARRANTY CARD	¥ <b>0.</b> W	
			846-0143-13	WARRANTY CARD	<b>-</b>	
		***	B60-0930-00 B60-0932-00 B60-0934-00	INSTRUCTION MANUAL(ENGLISH) INSTRUCTION MANUAL(SPANISH) INSTRUCTION MANUAL(FRENCH)	ய	
		***	B60-0935-00 B60-0936-00 B60-0937-00	INSTRUCTION MANUAL(GERMAN) INSTRUCTION MANUAL(DUTCH) INSTRUCTION MANUAL(ITALIAN)	យយមា	
	10 28,20	*	E30-2592-15 E30-2593-15 E30-2650-05 E35-0495-05	AC POWER CORD AC POWER CORD AC POWER CORD WIRING HARNESS	91 - X	
			H10-5300-02 H10-5301-02 H10-5391-03 H13-0039-04 H25-0632-24	POLYSTYRENE FOAMED FIXTURE(L) POLYSTYRENE FOAMED FIXTURE(R) POLYSTYRENE FOAMED FIXTURE(F) CARTÓN BOARD PROTECTIÓN BAC	KPE	
		***	H25-0644-04 H25-0681-04 H50-0356-04 H50-0357-04	PROTECTION BAG (0632 PRINTED) PROTECTION BAG ITEM CARTON CASE(A-AS) ITEM CARTON CASE(A-ASL)	T XP	
	30 10 10		J02-0370-05 J19-2815-04 J42-0083-05 J61-0307-05	FOOT Antenna Holder Power Cord Bushing Wire Band		
	38 A	**	K29-4358-04 K29-4426-01 K29-4427-04	KNOB ASSY(VOLUME CONTROL) KNOB(POWER, DISPLAY etc.) KNOB(BALANCE,N.B.CIRCUIT)		
	300	***	L07-0546-15 L07-0549-15 L07-0570-15	POWER TRANSFORMER POWER TRANSFORMER POWER TRANSFORMER	⊼¤⊢ or	
	30 B A B	•	N89-3008-45 N09-1445-05 N09-2782-05 N89-3006-46 N86-4006-45	BINDING HEAD TAPTITE SCREW (N3X8) TAPTITE SCREW (2.6X9) BINDING HEAD TAPTITE SCREW BINDING HEAD TAPTITE SCREW		
	28 20		N35-3006-46 N09-0333-05	BINDING HEAD MACHINE SCREW TAPPING SCREW (3X12)		
	414		790-0173-05 790-0176-05 190-0185-05	LOOP ANTENNA(AH) TYPE ANTENNA(FH) ANTENNA ADAPTOR	丑	
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Ref. No. Address New	Address	No.	Parts No.	Description	Desti- Re-	8
物配件中	台篇	編	100 年 100 日	路 唱 名人族 祐	4	*

Z û	New Parts No. Parts 略品事業	Description 路唱名/栽格	Destination at the second	Re- marks
A-A5//	ASL (K,P,T,E type	e): SINGAPORE MADE		
* * * A 601	2966-01 MET 0258-01 PAN 0259-01 PAN	TALLIC CABINET NEL(A-AS) NEL(A-ASL)	× + G B	v
* * B10-1 B11-0 B46-0 B46-0	259-03 259-04 2092-13 121-13	FRGNT CLASS SMOKED FILTER SMOKED FILTER MARRANTY CARD WARRANTY CARD	×o.tu	
846-0	143-13 WA	RRANTY CARD	H	
0-0-098	930-00 932-00 1N 934-00	STRUCTION MANUAL(ENGLISH) ISTRUCTION MANUAL(SPANISH) ISTRUCTION MANUAL(FRENCH)	. wa	
# 860-0 0-098 * *	935-00 1N 936-00 1N	STRUCTION MANUAL(GERMAN) ISTRUCTION MANUAL(DUTCH) ISTRUCTION MANUAL(ITALIAN)	យយយ	
# E30-2	592-15 AC 593-15 AC 650-05 AC 495-05 WIR	POWER CORD POWER CORD POWER CORD NING HARNESS	ᅈ⊢줐	
* * * H10 -5	324-02 925-02 990-03 986-04 632-24 PROLY	YSTYRENE FOAMED FIXTURE(L) YSTYRENE FOAMED FIXTURE(R) YSTYRENE FOAMED FIXTURE(F) TYON BOARD NIECTION BAG	KPE	იიიი
# # H25-06 H25-06 H50-0-0-0	644-04 PRØ 681-04 PRØ 418-04 ITE 420-04 ITE	OTECTION BAG (0632 PRINTED) OTECTION BAG EM CARTON CASE(A-AS) EM CARTON CASE(A-ASL)	1× 1	ωω
702-07 719-28 742-07 761-0	370-05 815-04 83-05 83-05 81R 307-05	JT ENNA HOLDER VER CORD BUSHING RE BAND		
* K29-4 * K29-4 * K29-4	358-04 KNOE 426-01 KNOE 427-04 KNOE	DB ASSY(VOLUME CONTROL) DB(POWER, DISPLAY etc.) DB(BALANCE, N.B.CIRCUIT)		
* L07-08	546-15 POWER 549-15 POWER 570-15 POWER	EER TRANSFORMER FER TRANSFORMER JER TRANSFORMER	×w⊢ o.	
N89-3 N09-1 N89-3 N86-4	008-055 782-05 006-146 006-145 81	NDING HEAD TAPTITE SCREW TI SCREW (M3X8) TITE SCREW (2.6A) NDING HEAD TAPTITE SCREW NDING HEAD TAPTITE SCREW		
N35-3 N09-0	333-05 BI	NDING HEAD MACHINE SCREW PPING SCREW (3X12)		
1900	-0174-05 L00F -0175-05 T T)	JP ANTENNA(AM) YPE ANTENNA FM) ENNA ADAPTOR	m	S
K:USA T:England	P-Canada E:Europe	S: SINC	SINGAPORE N FRANCE MADI	MADE

### PARTS LIST

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\* New Parts
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中華照為	育	a Har	路中事中	郑 岳 令人基 格	nation #	arks 編集
			A-A5L (T,E t)	type): FRANCE MADE		
601 602	18 34	- * *	A01-2956-01 A60-0259-01	METALLIC CABINET PANEL(A-ASL)		
603 604 -	38 38	* *	B10-1928-03 B11-0259-04 B46-0122-23 B46-0143-13	FRONT GLASS SMOKED FILTER VARRANTY CARD WARRANTY CARD	ω⊢	
		****	B60-0930-00 B60-0932-00 B60-0934-00 B60-0935-00 B60-0935-00	INSTRUCTION MANUAL(ENGLISH) INSTRUCTION MANUAL(ERBUCH) INSTRUCTION MANUAL(ERBUCH) INSTRUCTION MANUAL(ERRAN) INSTRUCTION MANUAL(ERRAN)	ពាពាមាពា	
		*	860-0937-00	INSTRUCTION MANUAL(ITALIAN)	ш	
606 606 607	10 10 28,20	*	E30-2592-15 E30-2593-15 E35-0495-05	AC POWER CORD AC POWER CORD WIRING HARNESS	ш⊢	
		***	H10-5326-02 H10-5327-02 H10-5389-03 H13-0039-04 H25-0632-24	POLYSTYRENE FOAMED FIXTURE(L) POLYSTYRENE FOAMED FIXTURE(R) POLYSTYRENE FOAMED FIXTURE(F) CARTÓN BOARD PROTECTION BAG	ш	t. t. t.
1 1 1		* *	H25-0644-04 H25-0681-04 H50-0421-04	PROTECTION BAG (0632 PRINTED) PROTECTION BAG ITEM CARTON CASE(A-ASL)	H	tı.
610 611 612	30 110 10		J02-0370-05 J19-2815-04 J42-0083-05 J61-0307-05	FOOT ANTENNA HOLDER POWER CORD BUSHING WIRE BAND		
614 615 616	3.8 3.8 3.8	**	K29-4358-04 K29-4426-01 K29-4427-04	KNOB ASSY(VOLUME CONTROL) KNOB(POWER, DISPLAY etc.) KNOB(BALANCE, N. B. CIRCUIT)	**-	
617	ဗ္ဗင္ဗ	* *	L07-0549-15 L07-0570-15	POWER TRANSFORMER POWER TRANSFORMER	ω <b>⊢</b>	
≪m∪∩m	2 3 3 3 3 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5		N89-3008-45 N09-1445-05 N09-2782-05 N89-3006-46 N86-4006-45	BINDING HEAD TAPTITE SCREW SET SCREW (M308) TAPTITE SCREW (2.6X8) BINDING HEAD TAPTITE SCREW BINDING HEAD TAPTITE SCREW		
ll O	20 20		N35-3006-46 N09-0333-05	BINDING HEAD MACHINE SCREW TAPPING SCREW (3X12)		
618 619 620	1A 1A		T90-0153-05 T90-0176-05 T90-0185-05	LOOP ANTENNA(AM) T TYPE ANTENNA(FM) ANTENNA ADAPIOR		w
			A-A5 (Y,M,X	type): JAPAN MADE		
602	7E	* *	A01-2956-01 A60-0257-01	METALLIC CABINET PANEL(A-AS)		
603 604 -	ដូស	* *	B10-1928-03 B11-0259-04 B46-0094-03	FRONT GLASS SMOKED FILTER WARRANTY CARD	>-	
L:Scandinavia	ria Kra	.]	i	S: SING/	SINGAPORE MAD	ADE.
Y:PX(Far East, H	Y:PX(Far East, Hawaii)		T:England F:Firms			

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A indicates safety critical components.

P:Canada E:Europe M:Other Areas

K:USA T:England X:Australia

L:Scandinavia Y:PX(Far East, Hawaii) Y:AAFES(Europe)

A indicates safety critical components

T:England E:Europe X:Australia M:Other Areas P.Canada

Y:PX(Far East, Hawaii) Y:AAFES(Europe) L.Scandinavia

## A-A5/A5L

### PARTS LIST

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\* New Parts
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Les articles non mentionnes dans ie Parts No. ne sont pas fournis.
Telle onre Parts No. werden nicht geliefert.

Address N	Z 4 "	ž ž is	Parts No.	Description 脚 唱 名 / 純 裕	Destination	Re- marks 表
**	* *		846-0095-03 846-0096-33 858-0513-04 860-0930-00 860-0931-00	WARRANTY CARD WARANTY CARD CARD (PRESET220-240) INSTRUCTION MANUAL ENGLISH) INSTRUCTION MANUAL (CHINESE)	>×> E	
**	* *		B60-0932-00 B60-0987-00	INSTRUCTION MANUAL(SPANISH) INSTRUCTION MANUAL(ARABIC)	××.	
* * * * * * * * * * * * * * * * * * *	*		E03-0115-05 E30-2592-15 E30-2594-15 E30-2605-05 E35-0404-05	AC PLUG ADAPTER AC POWIER CORD AC POWIER CORD AC POWIER CORD VIRING HARNESS	EEX>	
* 50	*		F09-0082-05	FAN		
			H10-5300-02 H10-5301-02 H10-5391-03 H13-0039-04 H25-0632-24	POLYSTYRENE FOAMED FIXTURE(L) POLYSTYRENE FOAMED FIXTURE(R) POLYSTYRENE FOAMED FIXTURE(F) CARTON BOARD PROTECTION BAG		
××	# <b>*</b>		H25-0681-04 H50-0356-04	PROTECTION BAG ITEM CARTON CASE(A-AS)		
xwx	~~~~		J02-0370-05 J19-2815-04 J42-0083-05 J61-0307-05	FOOT ANTENNA HOLDER POWER CORD BUSHING WIRE BAND		.,,
**			K29-4358-04 K29-4426-01 K29-4427-04	KNOB ASSY(VOLUME CONTROL) KNOB(POWER, DISPLAY etc.) KNOB(BALANCE,N.B. CIRCUIT)		
**	* *		L07-0547-15 L07-0548-15	POWER TRANSFORMER POWER TRANSFORMER	××	
ււ ա ււ ււ ւ			N89-3008-45 N09-1445-05 N09-2782-05 N89-3006-46 N86-4006-45	BINDING HEAD TAPTITE SCREW SET SCRW (1838) HAPTITE SCREW (2.688) BINDING HEAD TAPTITE SCREW BINDING HEAD TAPTITE SCREW		
OOL			NB9-3010-45 N09-0333-05 N89-3020-46	BINDING HEAD TAPTITE SCREW TAPPING SCREW (3X12) BINDING HEAD TAPTITE SCREW		
			0-0173-05	.00P ANTENNA(AM) TYPE ANTENNA(FM)		
* *	* *		A-A5 (M,X type) A01-2966-01 A60-0257-01	): SINGAPORE MADE  HETALLIC CABINET PANEL (A-A5)		S
* *	**		60 Q W.	ASS TLTE	×	
* *	* *			INSTRUCTION MANUAL(ENGLISH) INSTRUCTION MANUAL(CHINESE)	E	
* *	* *		B60-0932-00 B60-0987-00	INSTRUCTION MANUAL(SPANISH) INSTRUCTION MANUAL(ARABIC)	FE	
ш			E03-0115-05	AC PLUG ADAPTER	<u>*</u>	
	-		KEUSA P.Canada	NIS :S	SINGAPORE MADE	MAD
Y:PX(Far East, Hawaii) 1			T:England E:Europe X:Australia M:Other Areas	F: TRAINCE WALLE WALLE WALLE WALLE WALLE WALLE WALLE Safety critical components	Critical con	Donerit Sponerity
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	606 606 607		1F 1F 2F, 2G	*		E30-2592-15 E30-2594-15 E35-0404-05	AC POWER CORD AC POWER CORD WIRING HARNESS	£×	
9	90		26	*		F09-0082-05	FAN		
				***		H10-5324-02 H10-5325-02 H10-5390-03 H13-0086-04 H25-0632-24	POLYSTYRENE FOAMED FIXTURE(L) POLYSTYRENE FOAMED FIXTURE(R) POLYSTYRENE FOAMED FIXTURE(F) CARTON BOARD PROTECTION BAG		ທທທທ
1 1 1				* * *		H25-0681-04 H50-0418-04 H50-0419-04	PROTECTION BAG ITEM CARTON CASE(A-A5) ITEM CARTON CASE(A-A5)	×E	ωω
	610 611 612		11 3H			J02-0370-05 J19-2815-04 J42-0083-05 J61-0307-05	FOOT ANTENNA HOLDER POWER CORD BUSHING WIRE BAND		
	614 615 616		3E 3E		* *	K29-4358-04 K29-4426-01 K29-4427-04	KNOB ASSY(VOLUME CONTROL) KNOB(POWER, DISPLAY etc.) KNOB(BALANCE, N.B. CIRCUIT)		
	617		38		* *	L07-0547-15 L07-0548-15	POWER TRANSFORMER POWER TRANSFORMER	£Χ	
	∢ a ∪ a w		25 25 25 26 26 26			N89-3008-45 N09-1445-05 N09-2782-05 N89-3006-46 N86-4006-45	BINDING HEAD TAPTITE SCREW SET SCREW (M3X8) TAPTITE SCREW (2.6X8) BINDING HEAD TAPTITE SCREW BINDING HEAD TAPTITE SCREW		
	a. o ±		10 10 10			N89-3010-45 N09-0333-05 N89-3020-46	BINDING HEAD TAPTITE SCREW TAPPING SCREW (3X12) BINDING HEAD TAPTITE SCREW		
	618		<u> </u>		-	T90-0174-05 T90-0175-05	LOOP ANTENNA(AM) T TYPE ANTENNA(FM)		w
	•1				4	AUDIO UNIT (K,P	T,E type) x09.3		
	22822	24.08.0				C91-0749-05 CEO4KW1V100M CC45FSL1H560J C90-3253-05 CK45FB1H561K			
	12000 12000 14000	1175 1186 1188 120				CED4KW1H010M C90-3253-05 C90-3254-05 CC45FSL1H220J CC45FSL1H221J	ELECTRO 1.00F 50WV ELECTRO 2.20F 50WV ELECTRO 2.20F 50WV CERAMIC 22PF J		
	0223 0223 023	24488				CC45FSL1H100D CC45FSL1H470J CC45FSL1H390J CC45FSL1H221J CF92FV1H103J	CERAMIC 10PF D CERAMIC 47PF J CERAMIC 39PF J CERAMIC 220PF J MF		
	000000 000000 040000	0.00 4 0.00 4 0.00 4				CF92FV1H222J CF92FV1H104J CF92FV1H472J CE04KW1C101M C91-0749-05	MF 2200PF J MF 0.10UF J MF 4700PF J ELECTRO 100UF 16WV CERAMIC 220PF K		
	-	L:Scandinavia	av.e	1 .	_ ~ '		S: SING	SINGAPORE MAD FRANCE MADE	MAD
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C90-3258-05 CG04KW1A101M CF02FV1H472J CE04HH1E330M CF92FV1H104J	90-3258-05 504KW1A101 692FV1H472 E04HW1E330 792FV1H104	90-3258-05 504KW1A101 692FV1H472 E04HW1E330 792FV1H104	90-3258-05 504KW1A101 692FV1H472 E04HW1E330 792FV1H104	90-3258-05 504KW1A101 692FV1H472 E04HW1E330 792FV1H104	ELECTRO 100F 504V ELECTRO 1000F 104V NF 4700PF 3 NP-5LEC 330F 254V RF 6100F 3		
CEO4KWICIOIM CF92FVIHIO4J CEO4KWIHO10M CG04KWIH470M C90-1826-05	E04KW1C101 F92FV1H104 E04KW1H010 E04KW1H470	E04KW1C101 F92FV1H104 E04KW1H010 E04KW1H470	E04KW1C101 F92FV1H104 E04KW1H010 E04KW1H470	E04KW1C101 F92FV1H104 E04KW1H010 E04KW1H470	 MF 0.10UF 16WV MF 0.10UF J 0.10UF J 0.10UF J 0.10UF SOWV ELECTRO 1.0UF SOWV BACKUP 0.047F 5.5WV		
CF92FV1H104J CE04KW1H220M CE04KW18471M CE04KW1E1101M	F92FV1H104 E04KW1H220 E04KW1E471 E04KW1E101	F92FV1H104 E04KW1H220 E04KW1E471 E04KW1E101	F92FV1H104 E04KW1H220 E04KW1E471 E04KW1E101	F92FV1H104 E04KW1H220 E04KW1E471 E04KW1E101	MF 0.100F J ELECTRO 22UF 50WV 470UF 25WV ELECTRO 47UF 35WV ELECTRO 100UF 25WV		
CF92FV1H104J CF24FVH103J CF22FVH103J CF02FVH103J CF04FVH103J	F92FV1H104 E04KW1C101 F92FV1H104 F92FV1H103 E04KW1H221	F92FV1H104 E04KW1C101 F92FV1H104 F92FV1H103 E04KW1H221	F92FV1H104 E04KW1C101 F92FV1H104 F92FV1H103 E04KW1H221	F92FV1H104 E04KW1C101 F92FV1H104 F92FV1H103 E04KW1H221	MF 0.10UF J ELECTRO 100UF 16WV MF 0.10UF J MF 0.010UF J ELECTRO 220UF 50WV		
71	C90-1966-05 CF92FV1H154 CE04HW1H010 CF92FV1H105 CK45FB1H102	C90-1966-05 CF92FV1H154 CE04HW1H010 CF92FV1H105 CK45FB1H102	C90-1966-05 CF92FV1H154 CE04HW1H010 CF92FV1H105 CK45FB1H102	90-1966-05 F92FV1H154 E04HW1H010 F92FV1H105 K45FB1H102	ELECTRO 4700UF 42WV MP-ELEC 1.0UF 50WV MR CERAMIC 1000F K		
* C90-3247-05 CK45F1H103Z CK45F1H23Z CK45F1H102K CK45F9H102K	C90-3247-05 CK45FF1H103 CK45FF1H223 CK45FB1H102 CE04KW1H010	C90-3247-05 CK45FF1H103 CK45FF1H223 CK45FB1H102 CE04KW1H010	C90-3247-05 CK45FF1H103 CK45FF1H223 CK45FB1H102 CE04KW1H010	90-3247-05 K45FF1H103 K45FF1H223 K45FB1H102	CERAMIC 0.010UF Z CERAMIC 0.022UF Z CERAMIC 1000PF K ELECTRØ 1.0UF 50NV		
96 CK45FB1H102K CEG4KW1C330M C91-1439-05	K45FB1H102 E04KW1C330 91-1439-05	K45FB1H102 E04KW1C330 91-1439-05	K45FB1H102 E04KW1C330 91-1439-05	K45FB1H102 E04KW1C330 91-1439-05	CERAMIC 1000PF K BLECTRO 33UF 164V FILM 0.01UF 250VAC		
20 E08-1508-05 20 E08-0411-05 20 E20-0475-05 20 E13-0138-05	E08-1508-0 E08-0411-0 E20-0475-0 E13-0138-0	08-1508-0 08-0411-0 20-0475-0 13-0138-0	08-1508-0 08-0411-0 20-0475-0 13-0138-0	08-1508-0 08-0411-0 20-0475-0 13-0138-0	RECTANGULAR RECEPTACLE(RED) RECTANGULAR RECEPTACLE(GRAY LOCK TERMINAL BOARD(SPEAKER PHONO JACK(SUPER WOOFER)	~ ŵ	
1C F20-1284-05 F05-122-05 F05-2525-05 F04-2025-05 F06-2021-05	C F20-1284-0 F05-1222-0 F06-2525-0 F04-2025-0 F06-2021-0	20-1284-0 05-1222-0 06-2525-0 04-2025-0 06-2021-0	20-1284-0 05-1222-0 06-2525-0 04-2025-0 06-2021-0	20-1284-0 05-1222-0 06-2525-0 04-2025-0 06-2021-0	INSULATING BOARD FUSE (SEMKØ) (250V 11.25A) FUSE (UL) (250V 2.5A) FUSE (UL) (250V 2A) FUSE (SEMKØ) (250V 12A)	ከ <b>ታ</b> ሯቸ ከ <b>ኖ</b> ኞቨ	
F06-2021-05 F06-2525-05 F04-2025-05 F06-2021-05	06-2021-0 06-2525-0 04-2025-0 06-2021-0	06-2021-0 06-2525-0 04-2025-0 06-2021-0	06-2021-0 06-2525-0 04-2025-0 06-2021-0	06-2021-0 06-2525-0 04-2025-0 06-2021-0	FUSE (SEMKØ) (250V T2A) FUSE (UL) (250V 2.5A) FUSE (UL) (250V 2A) FUSE (SEMKØ) (250V T2A)	H & & H	
-14 J13-0075-05	13-0075-0	13-0075-0	13-0075-0	13-0075-0	FUSE CLIP		
2 L39-0085-05 2C L07-0332-05 2C L07-0333-05 2C L07-0334-05	L39-0085-0 L07-0332-0 L07-0333-0 L07-0334-0	39-0085-0 07-0332-0 07-0333-0 07-0334-0	39-0085-0 07-0332-0 07-0333-0 07-0334-0	39-0085-0 07-0332-0 07-0333-0 07-0334-0	PHASE COMPENSATION COIL POWER TRANSFORMER POWER TRANSFORMER POWER TRANSFORMER	×⊢ω	

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N/J	<b>肾</b>	醋	野 昭 名/熱 祐	nation marks 午 回音林
		RD14NB2E4R7J RS14KB3D100J RD14NB2E100J RD14NB2E101J RS14KB3D391J	RD 4.7 J 1/4W FL-PROOF RS 10 J 2W RD 10 J 1/4W RD 100 J 1/4W FL-PROOF RS 390 J 2W	
		RD14NB2E101J RS14KB3D391J RD14NB2E470J RS14KB3D100J R92-0173-05	RD 174H FL-PROSE RS 390 J 2W RD 47 J 1/4W FL-PROSE RS 10 J 2W RC 2.2M M 1/2W	ď.
	**	RS14KB3D121J RS14KB3D151J RS14KB3D681J R29-5073-05 R11-9023-05	FL-PROOF RS 120 J 2W FL-PROOF RS 150 J 2W POTENTIONETER VOLUME CONTROL) POTENTIONETER (BALANCE)	
2C		R05-5046-05	POTENTIONETER(N. B. CIRCUIT)	-
		S76-0009-05 S76-0005-05	MAGNETIC RELAY(POWER) MAGNETIC RELAY(FRONT SPEAKERS)	
		HSS104 1SS133 HZS4.7N(B2) RD4.7ES(B2) HSS104	DIODE 0100E ENER DIODE ZEMER DIODE DIODE	
		1SS133 HZS6.8N(B2) RD6,8ES(B2) HSS104 1SS133	0100E ZENRR 0100E ZERR 0100E 0100E	
		S5688 HZS27N(B2) RD27ES(B2) S5688 HSS104	D100E ZENR D100E ZERR D100E D100E D100E	
		1SS133 D3SBA20F03 HZS4.7N(B2) RD4.7ES(B2) HSS104	DIODE DIODE DIODE ZENER DIODE DIODE	
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	<del></del>	HZS4.7N(B2) RD4.7ES(B2) HSS104 1SS133 HZS5.6N(B2)	ZENER DIGDE ZENER DIGDE DIGDE DIGDE ZENER DIGDE	
		RDS.6ES(B2) HSS104 1SS133 NJM4565D-D TA8409S	ZENER DIGDE DIGDE DIGGOS CK MP X2) ICK MG TGR CONTROL)	

S: SINGAPORE MADE F: FRANCE MADE

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MULTI-COMP RD

R90-0826-05 R014NB2E4R7J

CP1 ,2 R39 ,40

A indicates safety critical components.

K-USA P-Canada T:England E:Europe X-Australia M:Other Areas

L:Scandinavia Y:PX(Far East, Hawaii) Y:AAFES(Europe)

S: SINGAPORE MADE F: FRANCE MADE  $\Delta$  indicates safety critical components.

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S: SINGAPORE MADE F: FRANCE MADE

## A-A5/A5L

## A-A5/A5L

### PARTS LIST

\* New Parts
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	≄	+15V) +15V) -15V) +5V)	+5V)							DE E MADE	777777 739 739 739	50WV 16WV 30WV 0	J 354V 354V
Description	晶 名/規	REGULATOR/ REGULATOR/ REGULATOR/ ESET) REGULATOR/	REGULATØR/							X09-367 JAPAN MADE X09-371: SINGAPORE M	470PF 150PF 2200PF 10UF 0.15UF	2.2UF 10UF 1.0UF 120PF	220PF 100UF 10UF
	箱	ICCVOLTAGE ICCVOLTAGE ICCVOLTAGE ICCSYSTEM RI	ICCVOLTAGE TRANSISTOR TRANSISTOR TRANSISTOR TRANSISTOR	TRANSISTOR TRANSISTOR TRANSISTOR TRANSISTOR TRANSISTOR	TRANSISTOR TRANSISTOR TRANSISTOR TRANSISTOR TRANSISTOR	TRANSISTOR TRANSISTOR TRANSISTOR TRANSISTOR	TRANSISTOR TRANSISTOR TRANSISTOR TRANSISTOR	TRANSISTOR TRANSISTOR TRANSISTOR TRANSISTOR	TRANSISTOR TRANSISTOR TRANSISTOR TRANSISTOR TRANSISTOR	X type)	ပ္ရပ္ စ္က	ELECTRO ELECTRO ELECTRO CERAMIC CERAMIC	CERAMIC CERANIC ELECTRO ELECTRO
Parts No.	蜡	TA7815S UPC7815AHF TA79015S PST529D TA7805S	UPC7805AHF 2SC1740S(Q,R) 2SC2458(Y,GR) 2SC2785(F,E) 2SC3311A(Q,R)	2SA992(E,F) 2SC1845(F,E) 2SA992(E,F) 2SC4137(V,W) 2SC1845(F,E)	2SD2340 2SB1531 2SA1048(Y,GR) 2SA1175(F,E) 2SA13094(Q,R)	25A933S(q,R) 2SC2003(L,K) 2SC2878(B) 2SA1048(Y,GR) 2SA1175(F,E)	25A1309A(Q,R) 25A933S(Q,R) 25C2003(L,K) 25B764 25C2003(L,K)	2SA992(E,F) 2SC1845(F,E) 2SA1048(Y,GR) 2SA1175(F,E) 2SA13094(Q,R)	2549335(4,R) 25C17405(4,R) 25C2458(Y,GR) 25C2785(F,E) 25C3311A(4,R)		CK45FB1H471K CC45FSL1H151J CF92FV1H222J C90-3225-05 CF92FV1H154J	CED4KW1H2R2M C90-3225-05 CED4KW1H010M CC45FSL1H121J CC45FSL1H100D	
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			00000	F92FV1H823 E04KW1C100 E04KW1H470 E04KW1H221 F92FV1H102 E04KW1C100	MF ELECTRO ELECTRO ELECTRO ELECTRO	082U UF UF 00F UF	J 164V 50WV J 164V		
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95 -97 98 ,99 107 108				CEO4KWIC101M CF92FV1H104J CEO4KW1H4R7M CEO4KW1H010M CEO4KW1A101M	ELECTRO MF ELECTRO ELECTRO ELECTRO	1000F 0.100F 4.70F 1.00F	16WV 50WV 50WV 10WV		
110 111 112 113,114				CEO4KW1C470M CEO4KW1C101M CEO4KW1H2R2M CC45FSL1H101J C90-3253-05	ELECTRO ELECTRO ELECTRO CERAMIC ELECTRO	47UF 100UF 2.2UF 100PF 1UF	16WV 16WV 50WV 3		
116 117 118,119 120 121,122				CEO4KW1HO1OM C91-1439-05 CK45FF1H103Z CEO4KW1C101M CK45FF1H103Z	BLECTRO FILM CERAMIC BLECTRO CERAMIC	1.00F 0.010F 0.010UF 100UF 0.010UF	50WV 250VAC 2 16WV 2		
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0231, 232 0233, 234 0235 0236 0237		****		CED4KW1V470M CED4KW1V100M CED4KW1E471M CED4KW1H010M C90-1827-05	ELECTRO ELECTRO ELECTRO ELECTRO BACKUP	470F 100F 470UF 1.00F 0.047F	358V 358V 258V 508V 5.58V		
C238 C243,244 C245,246			* *	C90-3239-05 C90-3253-05 C90-3237-05	ELECTRO ELECTRO ELECTRO	100UF 1UF 47UF	25WV 50WV 25WV		
110m4n	22222			E08-1508-05 E58-0001-05 E20-0459-05 E63-0018-05 E11-0220-05	RECTANGULAR RECTANGULAR LØCK TERMIN PHØNØ JACK(	RECEPTAC RECEPTAC AL BOARD( S. WOOFER,	LE(GREEN) LE(GREEN) F.SP.) SURR.SP.)		
625 F1 F32 F53 - 7	1F.	16		F20-1284-05 F05-4025-05 F06-2021-05 F05-4025-05 F06-2021-05	INSULATING FUSE (SEMKO) FUSE (SEMKO) FUSE (SEMKO) FUSE (SEMKO)	BOARD (250V ) (250V ) (250V ) (250V	14A) 12A) 14A) 12A)	¥.	
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## **PARTS LIST**

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	RAMA RAMA RAMA RAMA RAMA	28,444 80,244				R90-0187-05 RN14BK2C1471F RD14NB2E151J RD14NB2E222J RD14NB2E181J	MULTI-COMP 0.22 RN 1.47 RO 150 RD 2.2K RD 180	XX XX XX XX XX XX	36 24 34 34 34 34 34 34 34		
	8855 853 863	45094 620 642				RD14NB2E151J RN14BK2C1003F RD14NB2E4R7J RS14KB3D100J RD14NB2E4R7J	RN RD RD FL-PROOF RS 10 RD 4.7	7. P#DPD	1/49 1/69 1/49 29 1/49		
	R65 , R85 R150 R187,	,188				RS14KB3D561J RD14NB2E221J RD14NB2E101J RS14KB3D271J RD14NB2E221J	FL-PROOF RS 560 RD 100 RD 100 FL-PROOF RS 270 RD 220	טטטטט	29 1/49 1/49 29 1/49		
4	R202 R204 R225, R229	226				RS14KB3D121J RS14KB3D151J RD14NB2E10OJ R92-O513-O5 RS14KB3D101J	FL-PROOF RS 120 FL-PROOF RS 150 R0 10 FUSE RESIST 10 FL-PROOF RS 100	hhhóh	29 29 1/49 1/49 29		
	R236 VR1 VR3 VR3		26 26 27 27	* * *		RS14KB3D681J R29-9028-05 R10-5043-05 R11-9022-05 R10-5060-05	FL-PROOF RS 680 POTENTIOMETER(VO POTENTIOMETER(BA POTENTIOMETER(N.	LUME CONT LANCE) B. CIRCUI	24 RØL) T)		
4	XX2 S21 S21			**		\$76-0002-05 \$76-0005-05 \$79-0006-05 \$79-0007-05	MAGNETIC RELAY(P MAGNETIC RELAY(F SWITCH ASSY (80°C SWITCH ASSY(105°	RELAY(POWER) : RELAY(RRONT SP.) SSY (80°C CUT FAN) SSY(105°C CUT PROTECT)	ECT)		
	011 011 066 07	ហុហ្				HSS104A 1SS131 HZS4.7N(B) RD4.7ES(B) HSS104A	DIQDE DIQDE ZENER DIQDE ZENER DIQDE DIQDE				
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j	13.5	L:Scandinavia Y:PX(Far East, Hawaii)	a ast, Haw	<b>(F)</b>	<b>4 절 월</b>	K:USA P:Canada T:England E:Europe		Q IT	1	SINGAPORE MADE FRANCE MADE	ADE E

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****	S5688B 1SR139-1 HSS104A 1SS131 HZS6.8N(	RD6.8E HZS6.2 RD6.2E HZS11N RD11ES	HZS16N(B2) RD16ES(B2) S5688B 1SR139-100 HSS104A	155131 HSS104/ 155131 NJM456 TA8409	NJM45 PST52 TA781 UPC78	25A99 25C18 25A99 25C41 25C41	25815 25618 25618 25618 25620	2SC287 2SA104 2SA117 2SA13(2SA93	2SC2878( 2SA1048( 2SA1175( 2SA1309A 2SA933S(	2SC17, 2SC24, 2SC27, 2SC33, DTC12,	UN4212 2SC200 2SA954 2SA15 2SD200	K:USA T:England X:Australia
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A indicates safety critical components.

E:Europe M:Other Areas P:Canada

K:USA T:England X:Australia

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Description	晶 名/魏		X14-362: JAPAN X14-364: SINGAF		0.010UF 47UF 0.010UF 0.47UF 100PF	2.2UF 3.3UF 0.010UF 0.015UF 0.022UF	4.70F 0.0220F 100F 0.0220F 100F	100UF 0.015UF 0.022UF 3900PF 1UF	22PF 470PF 0.010UF 0.027UF 1.0UF	470F 1.00F 470F 0.010UF 22PF	10F 0.22UF 10UF 100PF 270PF	100F 560PF 0.010UF 47UF 0.022UF	0.022UF 0.022UF 0.022UF 6800PF 100PF	47PF 27PF 100UF 0.01UF
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S: SINGAPORE MADE F: FRANCE MADE

A indicates safety critical components.

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S: SINGAPORE MADE F: FRANCE MADE

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P.Canada E.Europe M:Other Areas

K:USA T:England X:Australia

Y:PX(Far East, Hawaii) Y:AAFES(Europe) L:Scandinavia

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# A-A5/A5L A-A5/A5L

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Description 幽唱 名/慈 祐	ELECTRO 2.2UF 35WV ELECTRO 1UF 50WV CERAMIC 0.01UF K ELECTRO 22UF 6.3WV	LOCK TERMINAL BOARD(ANTENNA) LOCK TERMINAL BOARD(ANTENNA) PHONE JACK(PHONES)	GERANIC FILTER GERANIC FILTER GERANIC FILTER ARANIC FILTER FT FT FT	FW IFT ODSCRIMINATOR> SMALL FIXED INDUCTOR(1.0mH,K) LC FILER SMALL FIXED INDUCTOR(1UH)	COMBINATION COIL COMBINATION COIL COMMINATION COUL STALL FIXED INDUCTOR (1UH) CRYSTAL RESONATOR (7.2HHz)	RESONATOR (456kHz) CRYSTAL RESONATOR(4.194304MHz)	MULTI-COMP 100XX4 J 1/6W HULTI-COMP 100XX4 J 1/6W HULTI-COMP 6 J 1/4W FL -PROOF R0 100 J 1/4W	FL-PROOF RS 100 3 2W FL-PROOF RS 120 3 2W TRIMING POT (33K) <fm t-level=""> TRIMING POT (10K)<am t-level=""> TRIMING POT (330K)<sepa.></sepa.></am></fm>	PUSH SWITCH(1-0,AI TIMER etc.) PUSH SWITCH(LUNEW,IAEE) PUSH SWITCH(LUNAUW,ISPELAY) SLIDE SWITCH(110-120/220-240V) SLIDE SWITCH(0E-EM.,CH.SPACE)	DIODE DIODE DIODE ZENER DIODE ZENER DIODE	ZENER DIØDE DIØDE DIØDE DIØDE	01000 01000 01000 01000 01000
New Parts No. man an an an an	C90-3240-05 C90-3253-05 C91-0769-05 C90-3210-05	E20-0321-05 520-0476-05 E11-0234-05	L72-0531-05 L72-0536-05 L72-0096-05 L30-0488-05 L30-0439-25	L30-0494-05 L40-1021-14 L79-0125-05 L79-0790-05 L40-1091-17	L39-0189-05 L39-0195-05 L39-0192-05 L40-1091-17 L77-1122-05	L78-0208-05 L77-1176-05	R90-0855-05 R90-0482-05 R90-0824-05 RD14NBZE680J RD14GBZE101J	RS14KB3D101J RS14KB3D121J R12-3687-05 R12-3685-05 R12-6663-05	\$40-1064-05 \$40-1064-05 \$40-1064-05 \$31-3010-05 \$31-2132-05	HSS104 1N4148 1SS133 BZX55-C5V1 HZS5.1N(B2)	RDS.1ES(B2) HSS104 1N4148 1SS133 HSS104	185133 185134 185104 18148 185133
Address N		10,1H 10,1H 2A,2E							38,3F 38,3F 10,1H 10,1H			
Ref. No. 物涵曲名	C206 C209 C210-214 C215	H H H	CE 11.2	5525 7,	11111 <u>x</u> 4488	X2 X201	CP201 CP202 CP203 R21 R37	R53 VR1 VR3 VR5	S1 -25 S27 -28 S30 -36 S37 S101	001 001 033	03 0109,110 0109,110 0109,110	D111,112 D111,112 D113-116 D113-116

PARTS LIST

\* New Parts
Parts without Parts No. are not supplied.
Les articles non mentionnes dans le Parts No. ne sont pas fournis.
Telle onne Parts No. werden nicht geliefert.

Re- marks	tr.							v	ท	Ŋ	v	IADE F
Desti- nation 任 向	តក	TE XTE	XTE XTE YMXTE YMXTE YMXTE	2255					######################################	22		SINGAPORE MADI FRANCE MADE
Description 都 B 名 / 規 格	ZENER 0100E ZENER 0100E ZENER D100E D100E	0100E 0100E 0100E 0100E 0100E	DIGOS DIGOS DIGOS DIGOS DIGOS	010016 010016 010016 010016	DIQDE 0100E 0100E 0100E 0100E	DIODE INDICATOR TUBE ICCEPAT TUMER) ICCEPA HEX) ICCEPL FREQUENCY SYNTHESIZER)	ICC4BIT MICROPROCESSOR) ICC4BIT MICROPROCESSOR) ICCSERIAL/PARALLEL RONVERTER) TRANSISTOR	TRANSISTOR TRANSISTOR TRANSISTOR TRANSISTOR TRANSISTOR	TRANSISTOR TRANSISTOR TRANSISTOR TRANSISTOR	FET FET TRANSISTOR TRANSISTOR	TRANSISTOR TRANSISTOR TRANSISTOR TRANSISTOR TRANSISTOR	S: SINGAPORE MADE F: FRANCE MADE A indicates safety critical components
Parts No. 概 an m ap	BZXSS-C3V3 HZS3.3N(B2) RD3.3ES(B2) HSSIO4 1N4148	155133 HSS104 1N4148 155133 HSS104	1N4148 1SS133 HSS104 1N4148 1SS133	HSS104 1N4148 1SS133 HSS104 1SS133	HSS104 1N4148 1SS133 HSS104 1N4148	155133 FIP11AM7R LA1265 LA3401 LM7001	CXP50116-397Q CXP50116-397QA CX-7991 2SC1923(R,0) 2SC1845(F,E)	JC501(P, Q) 2SC1740S(Q, R) 2SC2458(Y, GR) 2SC278S(F, E) 2SC3311A(Q, R)	JC501(P,Q) 2SC1740S(Q,R) 2SC2458(Y,GR) 2SC2785(F,E) 2SC3311A(Q,R)	2SK163(L,M) 2SK364(GR,BL) JC501(P,Q) 2SC1740S(Q,R) 2SC2458(Y,GR)	2SC2785(F,E) 2SC3311A(Q,R) JA101(P,Q) 2SA1048(Y,GR) 2SA1175(F,E)	KUSA P.Canada T:England E:Europe X:Australia M:Other Areas
N P P							**					223
Address 位 富						3B, 3F						st, Hawaii) rope)
Ref. No. 特別申心	0120 0120 0120 0122	0122 0212 0212 0212 0213	02113 02113 02114 44124	0215 0215 0215 0216 0216	0217-227 0217-227 0217-227 0231-234 0231-234	0231-234 E0201 IC1 IC2 IC2	10201 10201 10202 01	mmmmm Oronororo	44444	20 30 10 40 20 7 7 7 7	97 97 9102 9102	L:Scandinavia Y:PX(Far East, Hawaii) Y:AAFES(Europe)

# A-A5/A5L A-A5/A5L

### PARTS LIST

New Parts
 Parts Without Parts No. are not supplied.
 Les articles non mentionnes dans le Parts

Les acticles non menuolines dans le Paris No, ne sont pes rournis	Telle ohne Parts No. werden nicht geliefert.
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4000年	25A1309A(0,R) TRA 25A933S(0,R) TRA JA101(P,Q) TRA 25A1048(Y,CR) TRA 25A1175(F,E) TRA	25A1309A(G,R) TRA 25A933S(G,R) TRA JA101(P,Q) TRA 25A1048(Y,GR) TRA 25A1175(F,E) TRA	25A1309A(Q,R) TRA 25A33S(Q,R) TRA JC501(P,Q) TRA 2SC1740S(Q,R) TRA 2SC2458(Y,GR) TRA	25C2785(F,E) TRA 25C3311A(Q,R) TRA 25C2458(Y,GR) TRA 25C3311A(Q,R) TRA 25D1302(S,T) TRA	JA101(P,Q) 2SA1048(Y,GR) TRA 2SA1175(F,E) TRA 2SA13094(Q,R) TRA 2SA933S(Q,R)	25C4038(Q,R) TRA 2SA1561(Q,R) TRA	M02-1046-05 W02-1041-15 W02-1042-15 FM	
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## SPECIFICATIONS

### <K,P type>

### Receiver unit (A-A5)

### Amplifier section Rated power output

28 watts per channel minimum RMS, both chan-	nels driven, at 8 $\Omega$ from 40 Hz to 20,000 Hz with no	ortion
RMS,	20,000	c disto
Ē	Hz to	more than 0.09 % total harmonic distortion
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ZS watts per channel minimum rwis, both charnels driven, at 8 Ω from 40 Hz to 20,000 Hz with n more than 0.09 % total harmonic distortion	
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vatts p driven re than	
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Total harmonic distortion

0.09 % (40 Hz ~ 20 KHz, 1/2 Rated power, 8 $\Omega$ ) Signal to noise ratio  15 Ball to noise ratio  16 Ball HF'66) / 80 dB(IHF'78)  17 AUX IN  18 AUX IN  19 AUX IN  10 AUX IN  10 AUX IN  11 AUX IN  12 AUX IN  14 AUX IN  15 AUX IN  16 AUX IN  17 AUX IN  18 AUX IN  19 AUX IN  10 AUX IN
---

FM Tuner section Tuning frequency renge	MONO	MONO 80 dB (85 dBf input) STEREO 74 dB (85 dBf.*-put) Selectivity (14 400 kHz) Selectivity (14 400 kHz)	Frequency response 30 Hz ~ 15 kHz, + 0.5 dB, – 3 dB  AM Tuner section  Tuning frequency range
FM T Tunin Sensi	Signs	Selec	Frequ Tunir

530 kHz ~ 1,700 kHz	10 μV / (500 μV / m)	48 dB
530 kHz ~ 1,700 kHz	Usable sensitivity 10 µV / (500 µV / m)	Signal to noise ratio (at 30 % mod. 1 mV input)

... 1.5 V / 3.6 kΩ

Output level / Impedance SUPER WOOFER OUT.

[General] Power consumption	Dimensions W: 270 mm (10-5 / 8")	H: 120 mm (4-3 / 4")	D: 332 mm (13-1 / 16")	Weight (Net)6.5 kg (14.3 lb)
[General] Power consumption	Dimensions			Weight (Net)

A indicates safety critical components

P.Carada E.Europe M:Other Areas

K:USA T:England X:Australia

Y:PX(Far East, Hawaii) Y:AAFES(Europe)

## SPECIFICATIONS

#### <T,E type>

Amplifier section Rated power output	(IEC / NF) From 63 Hz to 12,500 Hz, 0.7 % T.H.D.	at 8 \Omega30 W + 30 W	(DIN) 1 kHz at 8 \( \Omega \) 30 W + 30 W	Total harmonic distortion	0.09 % (40 Hz ~ 20 kHz, 1/2 Rated power, 8 \Omega)	0.06 % (1 kHz, 1/2 Rated power, 8 Ω)	Signal to noise ratio		Input sensitivity / Impedance	LD / AUX IN 150 mV / 47 kD	N.B. circuit (- 30 dB Volume level)(max.) + 15 dB	(at 60 Hz)	Output level / Impedance	SLIPER WOOFFR DLIT
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FM Tuner section   Tuning frequency range	MONO	STEREO 0.8 % (65.2 dBf input) Signal to noise ratio (DIN weighted at 1 kHz) MONO 70 dB (65.2 dBf input)	STEREO	ਲ	Tuning frequency range 531 kHz ~ 1,602 kHz Usable sensitivity	LW Tuner section Tuning frequency range	(at 30 % mod. 1 mV input)	[General] Power consumption	D: 332 mm (13-1 / 16")
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## A-A5/A5L

# **SPECIFICATIONS**

### < Y,M,X type >

Amplifier section

Kated power output	Tuning freque
(EIAJ 8 D)35 W + 35 W	Sensitivity (M
(IHF'66) From 40 Hz to 20 kHz, 0.09 % T.H.D.	Total harmoni
at 8 D	ONOM
(IEC / NF) From 63 Hz to 12,500 Hz, 0.7 % T.H.D.	STEREO
at 8 \transfer 30 W + 30 W	Signal to nois
Total harmonic distortion	MONO
0.09 % (40 Hz ~ 20 kHz, 1/2 Rated power, 8 \tilde{\alpha}	STEREO
0.06 % (1 kHz, 1/2 Rated power, 8 \(\Omega\)	Selectivity (±
Signal to noise ratio	Stereo separa
	Frequency resc
Input sensitivity / Impedance	
LD / AUX IN 150 mV / 47 kD	AM Tuner sec
MIC	Tuning freque
N.B. circuit (- 30 dB Volume level)(max.) + 15 dB	9 kHz step
(at 60 Hz)	10 kHz ste
Output level / Impedance	Usable sensiti
SUPER WOOFER OUT 1.5 V / 3.6 kg	Signal to noise

# KENWOOD CORPORATION Shows Bridge Balleton 150, Japan

KENWOOD U.S.A. CORPORATION
CONSUMER ELECTRONICS SHOULD
CONSUMER ELECTRONICS SHOULD
CONSUMER ELECTRONICS SHOULD
CONSUMER ELECTRONICS CANADA INC.

KENWOOD ELECTRONICS LATIN AMERICA S.A.

FOR SOS START, I was fined seen as the start of a yearner alroade
TRIO-KENWOOD U.K. LIMITED
CHWOOD ELECTRONICS BENELUX N.V.

WENTERSHOUND ELECTRONICS BENELUX N.V.

WENTERSHOULD ELECTRONICS SOLUTION
TRIO-KENWOOD FLANCE S.A.

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KENWOOD ESPAÑA S.A.

KENWOOD follows a policy of continuous advancements in development. For this reason specifications may be changed without notice.

KENWOOD poursuit une politique de progrés constants en ce our concerne le développement. Pour cette raison, les spécifi-cations sont sujetires à modifications sans préavis. KENWOOD strebt stândige, Verbesseungen in der Entwicklung an Dahre bleiben Ánderungen der technischen Daten jederzeit vorbehalten.

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SO DOS SAS 4 PROPEROM, AMERICAN, HONOR AND 110, IACN 001 499 074)
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Component and circuitry are subject to modification to insure best operation under differing local conditions. This manual is based on, the U.S.A. (K) standard, and provides information on regional circuit modification through use of alternate schematic diagrams, and information on regional component variations through use of parts list.